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MITSUBISHI CS-35707 OWNER'S G MANUAL

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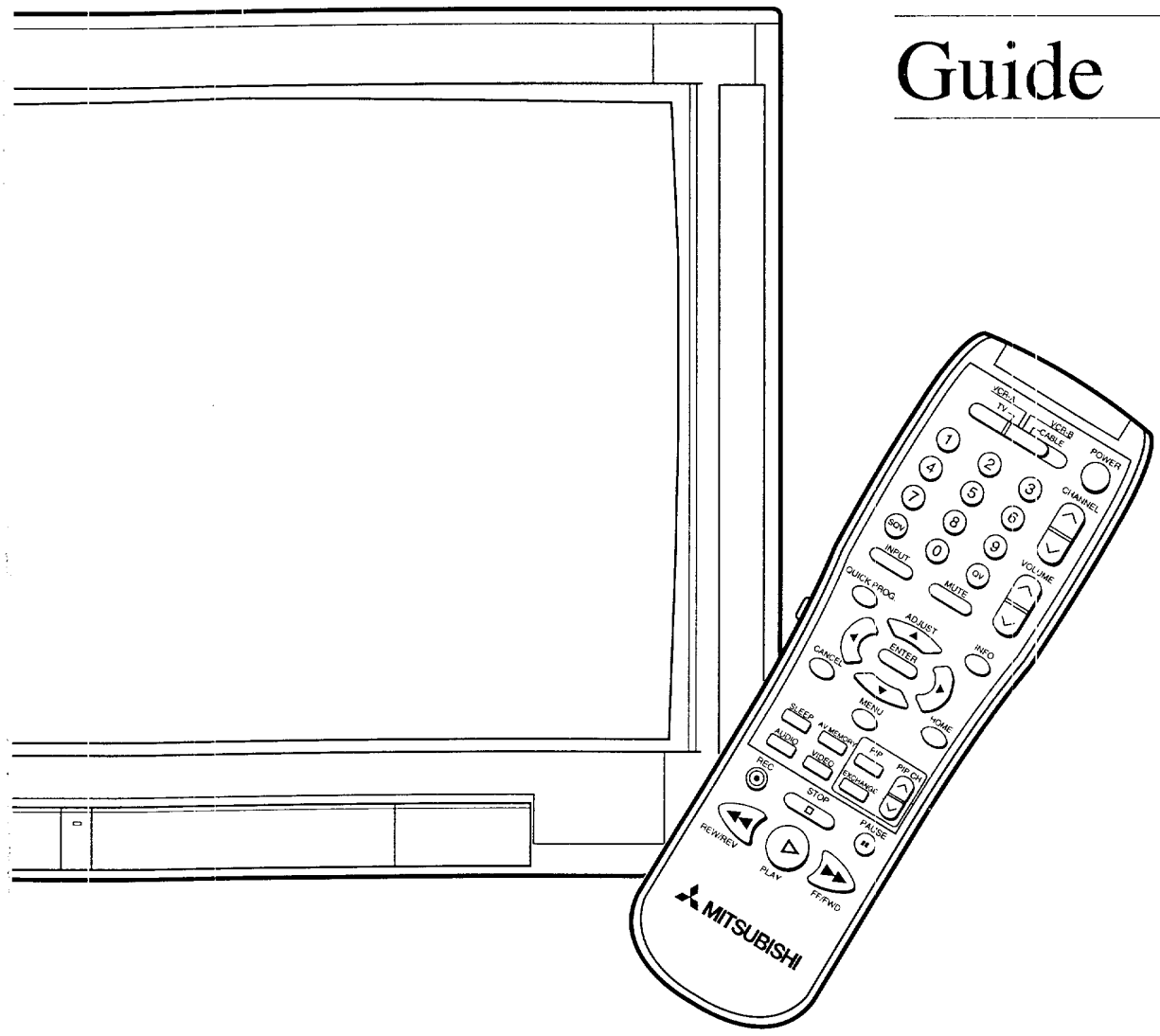
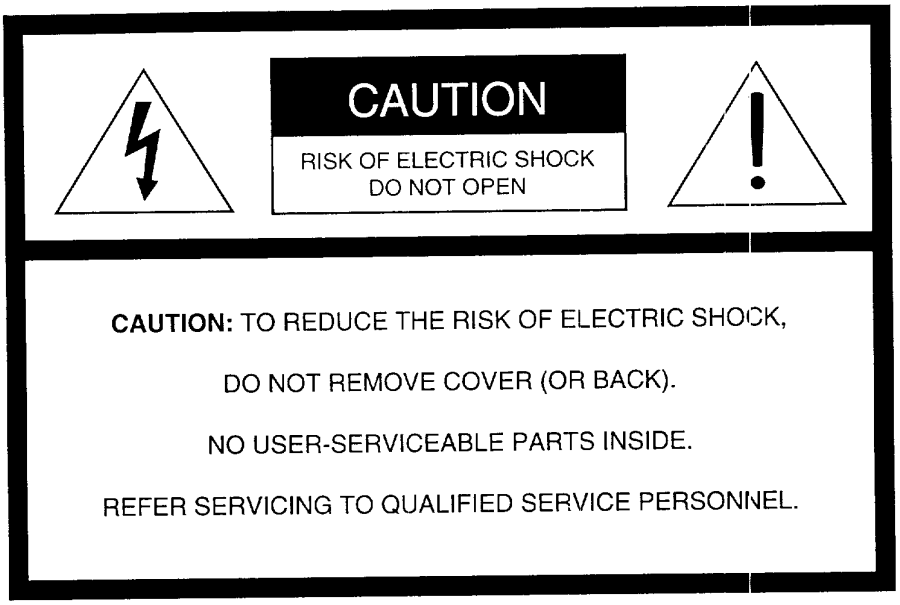
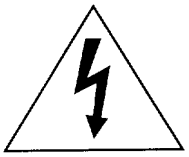
Television Owner's Guide




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

▶**Warning:** Don't leave stationary images, such as stock market reports, video games, station logos, or the TV's displays, on-screen for more than 10 minutes. Still patterns such as these can scar the TV, causing permanent damage to the picture tube.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT USE THIS UNIT'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV SYSTEM INSTALLER:

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

MITSUBISHI OWNER'S GUIDE

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IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS REGARDING YOUR TELEVISION SET AND RETAIN FOR FUTURE REFERENCE. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE TV RECEIVER.

1. **Read Instructions**
   Read all safety and operating instructions before operating the appliance.

2. **Retain Instructions**
   Retain the safety and operating instructions for future reference.

3. **Heed Warnings**
   Adhere to all warnings on the appliance and in the operating instructions.

4. **Follow Instructions**
   Follow all operating and use instructions.

▶ **Warning:**

5. **Cleaning**
   Unplug this TV receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Cleaners can permanently damage the cabinet or screen. Use a damp cloth for cleaning.

6. **Attachments and Equipment**
   Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

7. **Water and Moisture**
   Do not use this TV receiver where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

8. **Accessories**
   Do not place this TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV receiver. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. **Ventilation**
   Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV receiver and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the TV receiver on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV receiver is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. **Power Sources**
    This TV receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

11. **Grounding or Polarization**
    This TV receiver is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. **Power-Cord Protection**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **Lightning**
    For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV receiver due to lightning and power-line surges.

Important Safeguards (cont.)

14. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

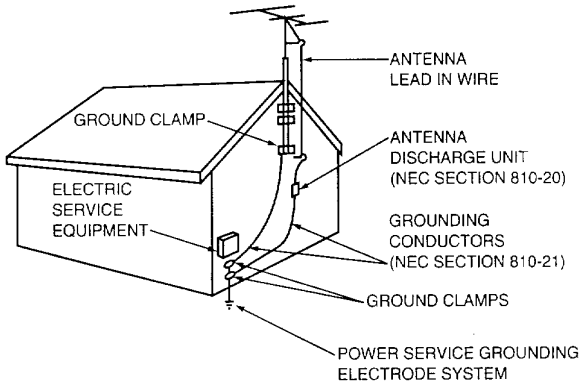
15. Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry
Never push objects of any kind into this TV receiver through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV receiver.

17. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC — NATIONAL ELECTRICAL CODE

18. Servicing
Do not attempt to service this TV receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service
Unplug this TV receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:
(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV receiver.
(c) If the TV receiver has been exposed to rain or water.
(d) If the TV receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to its normal operation.
(e) If the TV receiver has been dropped or the cabinet has been damaged.
(f) When the TV receiver exhibits a distinct change in performance — this indicates a need for service.

20. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. Safety Check
Upon completion of any service or repairs to this TV receiver, ask the service technician to perform safety checks to determine that the TV receiver is in safe operating condition.

▶Warning:
Do not leave stationary images, such as stock market reports, video games, station logos, or the TV's displays, on-screen for more than 10 minutes. Still patterns such as these can scar the TV, causing permanent damage to the picture tubes.

Welcome to Mitsubishi

Congratulations on your purchase of this Mitsubishi TV. Your TV is designed for superb visual and audio performance as well as total reliability.

To familiarize you with your TV and owner's guide, we suggest that you read through the preface, which provides the following important information:

- **Summary of Special Features**
- **Unpacking Your TV**
- **What's in Each Chapter**
- **Some Conventions Used in this Guide**

Mitsubishi strived to create your TV so that it will bring you years of viewing enjoyment. Similarly, this owner's guide is designed with a "user friendly" philosophy to help you take advantage of all of your TV's features.

Once again, thank you for selecting our product and welcome to Mitsubishi!

♦ Summary of Special Features

Your top rated Mitsubishi TV delivers:

- **181-Channel Capacity** --- programs up to 181 channels, ensuring your continued viewing pleasure as cable services continue to expand.
- **Four-Speaker Sound System** --- a special speaker system that produces clear stereo sound.
- **Expanded Sound Capability** --- allows you to connect the TV to an external audio system for enhanced listening pleasure.

In addition to the standard features found on most advanced TVs, Mitsubishi is proud to offer the following distinctive features:

- **Remote Control with TV/VCR/CABLE Function** --- uses a single remote control transmitter to operate the TV, certain Mitsubishi VCRs, some Mitsubishi audio components, and some VCRs and cable boxes from other manufacturers.
- **On-Screen Displays** --- appear whenever you adjust your TV, showing you the status of various functions.
- **3-D Graphic ViewPoint® On-Screen Operating System** --- simplifies the TV's features with easy-to-follow instructions.
- **Closed Caption Decoder** --- decodes hidden text information included with TV programs and displays the text on-screen.
- **Extended Data Services** --- (also known as "XDS") allows broadcasters to supply you with channel information, program information, and the time of day. You can display this information on-screen.
- **Picture-in-Picture Mode** --- allows you to view two different live pictures at the same time.
- **Active AV Network** --- allows you to perform many of the commonly used features of your system by pressing just one button.

Each of these features is explained in more detail in Chapter 3, "Operating Your TV," and in Chapter 4, "Using the Special Features."

♦ Unpacking Your TV

What you will find

As you unpack your new TV, please check to be sure that the following items are included:

- an owner's guide containing a warranty,
- a registration card,
- a remote control transmitter,
- two AAA size batteries for the remote control, and
- an active A/V network cable.

A few suggestions

Before you hook up your new TV, please take a few minutes to:

- Complete the registration card. The registration card asks for the TV's serial number, which you will find on the back of the unit.
- Keep the box and packing materials for future use.
- File your sales receipt.
- Place the TV on a stable surface with sufficient lighting to do the hook-up.

♦ What's in Each Chapter

Here's what you will find in this owner's guide:

Chapter 1, "Getting to Know Your TV," introduces you to the location and functions of the buttons and controls of your TV.

Chapter 2, "Connecting Your TV," explains how to connect a VCR, antenna, decoder and other equipment to your TV.

Chapter 3, "Operating Your TV," provides step-by-step instructions for using your TV.

Chapter 4, "Using the Special Features," explains how to use the special features of the TV.

Chapter 5, "Troubleshooting," summarizes the problems you may have along with suggestions for remedying these problems.

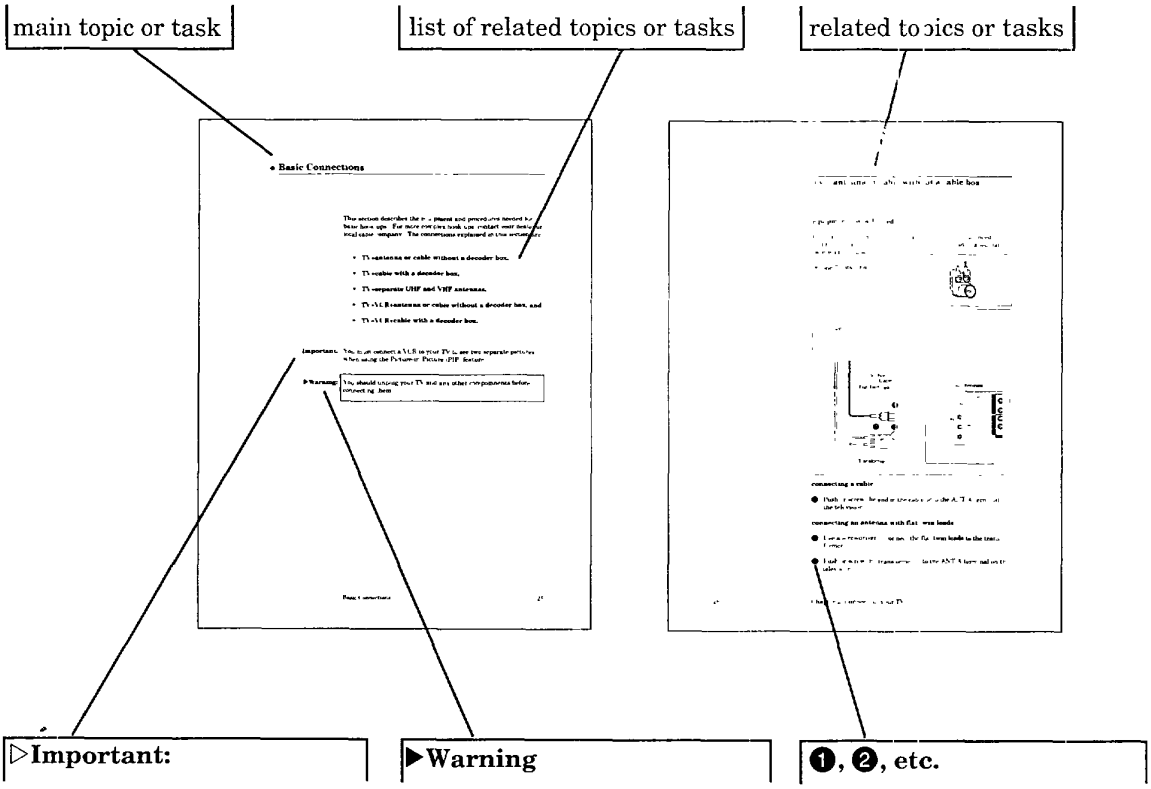
The appendix explains a procedure for bypassing the parental lock.

You will also find a detailed index at the back of the book.

♦ Some Conventions Used in this Guide

Mitsubishi has gone to great effort to provide users with an easy-to-follow, useful owner's guide. You will find that different types of information are treated in different ways.

You should read information labeled **Important** and information that is boxed and labeled **Warning**. The owner's guide uses these terms sparingly. You should read all information highlighted in this manner carefully.



▷Important:

This indicates information critical to the operation of your new TV.

▶Warning

This alerts you to information describing dangerous situations that could ruin your equipment or cause electrical shock.

❶, ❷, etc.

White numbers on a black background indicate step-by-step instructions.

CHAPTER ONE

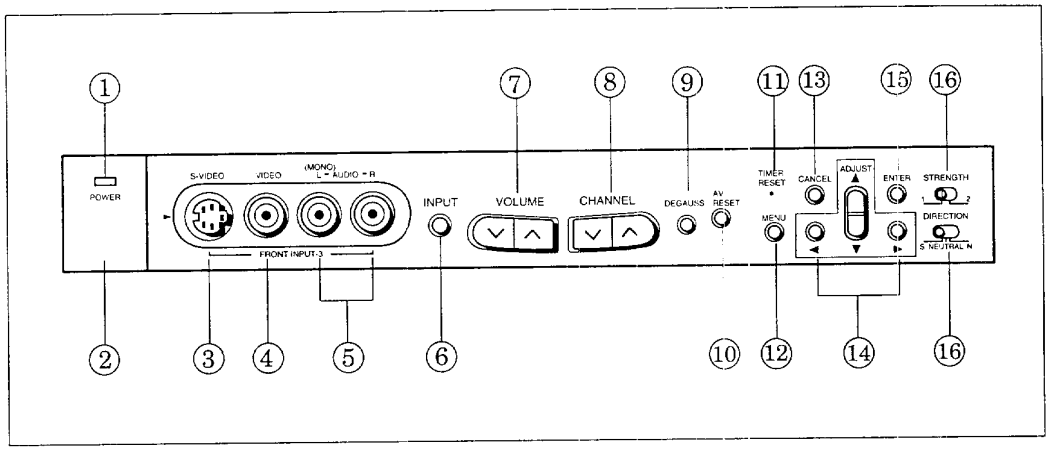
Getting to Know Your TV

Now that you have unpacked your TV, read through the safety information, and glanced at the overview explaining how this owner's guide is organized, it's time to become familiar with the buttons and controls used to operate the TV. This chapter introduces the available options when using the buttons on the remote control and on the TV's control panel. It also offers some general guidelines for using the remote control.

Most functions can be controlled by using either the control panel or the remote control, but certain specialized functions require the use of one or the other. This chapter, which familiarizes you with the full range of button functions, contains the following sections:

- **Overview of the Control Panel**
- **Overview of the Remote Control**

♦ Overview of the Control Panel



① **power/program timer indicator**
After you plug in the AC cord, wait about 15 seconds until the indicator stops blinking in red. This indicator lights in green when you turn the TV on; it lights in red when the timer is set and the TV's power is off.

② **power button (POWER)**
Use to turn the TV on or off. When you turn the TV on, the power indicator will light in green.

③ **S-VIDEO input terminal**
Use to connect the S-video output of a VCR, laserdisc player, or camcorder to the TV. If you connect an S-video cable to this terminal, the adjacent video input cannot be used.

④ **video input terminal**
Use to connect the video output from a standard VCR or another component to the TV.

⑤ **audio input terminals**
Use to connect the audio output from a VCR or other equipment to the TV.

⑥ **input button (INPUT)**
Use to select the input source you wish to watch:

- TV channels on Antenna A
- TV channels on Antenna B
- Other equipment connected to Input-1, 2, or 3

Overview of the control panel (cont.)

⑦ **volume controls (VOLUME)**
Press the ∧ button to turn up the volume and the ∨ button to turn down the volume.

⑧ **channel controls (CHANNEL)**
Use the ∧ button to switch to a channel with a higher number and the ∨ button to switch to a channel with a lower number.

⑨ **degauss button (DEGAUSS)**
Use this button to correct color impurity.

⑩ **AV reset button (AV RESET)**
Press to reset all audio and video functions to their normal level or setting.

⑪ **timer reset button (TIMER RESET)**
Use this button to reset the television only if it appears to have "locked up" or if it is not functioning properly. This button is recessed into the control panel to prevent accidental usage. To depress the button, insert a paper clip or similar object into the hole labeled TIMER RESET and press firmly inward. The TV turns off when you press this button. Before turning the TV on again, wait about 15 seconds until the power/program timer indicator stops blinking.

⑫ **menu button (MENU)**
Use this button to display the on-screen menu system, which contains additional instructions for special functions.

⑬ **cancel button (CANCEL)**
Use this button to cancel a channel number, to clear a channel programmed into SuperQuickView™ memory, and to clear the settings of some on-screen menus.

⑭ **adjust buttons (▲, ▼, ◀ , ▶)**
Use these buttons to select and adjust on-screen menu items.

⑮ **enter button (ENTER)**
Use this button to select highlighted on-screen menu items.

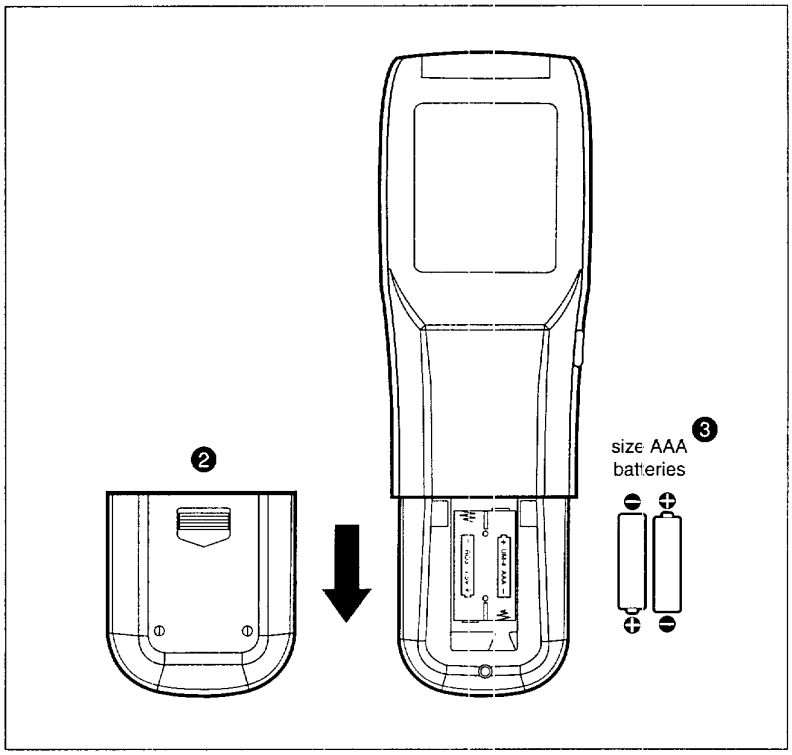
⑯ **color purity adjustment switches**
Set these switches according to the placement and position of your TV. (See "Adjusting the color purity" in Chapter 3).

♦ Overview of the Remote Control

Getting ready to use the remote control

installing the batteries

1. Take the box containing two AAA size batteries from the packing bag.
2. Remove the back cover of the remote control by pushing the tab in the direction of the arrow and lifting off the cover.
3. Load the batteries as indicated in the illustration, making sure that they are positioned correctly (+ to -).
4. Replace the back cover of the remote control.



guidelines for using batteries

- Don't use a new battery with an old one.
- Don't heat, take apart, or throw batteries into a fire.

For best results, use Duracell AAA (MN2400) batteries.

Overview of the remote control (cont.)

some do's and don'ts

To ensure that your remote control continues working properly, follow these guidelines:

- Don't press two or more buttons at the same time, unless you are specifically instructed to do so in this owner's guide.
- Don't allow the remote control to get wet or become heated.
- Avoid dropping the remote control on a hard surface.
- When cleaning the remote control, don't use any harsh chemicals. Use a soft, slightly moistened cloth only.

general instructions

When using the remote control to operate the TV, VCR, or cable box, follow these procedures:

❶ Be within 20 feet of the equipment.

❷ Point the tip of the remote control toward the equipment.

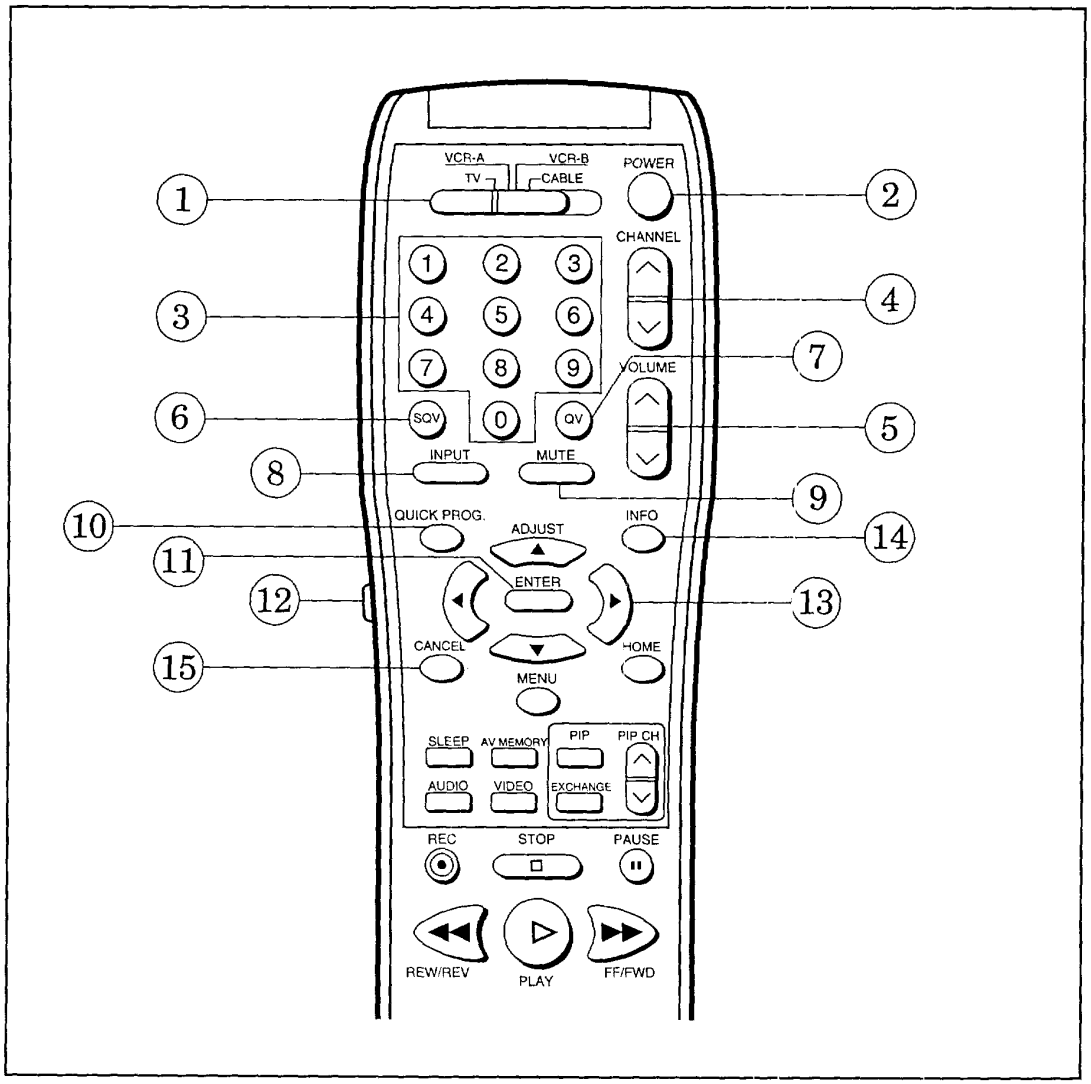
❸ Press the appropriate button or sequence of buttons.

Remote control buttons and functions

This section provides you with an overview of the remote control's buttons and the features they control.

This section does not provide detailed explanations for using the remote's buttons. To determine which buttons are used with a particular feature, refer to the instructions for that feature.

The instructions for individual features are found in Chapter 3, "Operating Your TV," and Chapter 4, "Using the Special Features."



① select switch
Your remote control has four layers: the TV layer, the VCR-A layer, the VCR-B layer, and the CABLE layer. You can set up each of these layers to operate a different piece of equipment. Use this switch to select the layer you want to set up or use.

② power button (POWER)
Use to turn the TV on or off. When you turn the TV on, the power indicator lights in green. (The select switch must be set to the TV layer.)

③ number buttons (0-9)
Use to select a channel number or to enter a parental lock code.

④ channel control (CHANNEL)
Press the top of the button to change to a channel with a higher number; press the bottom of the button to change to a channel with a lower number.

⑤ volume control (VOLUME)
Press the top part of the button to turn up the volume; press the bottom part of the button to turn down the volume.

⑥ SuperQuickView™ button (SQV)
Press to view channels you have programmed into SuperQuickView memory.

⑦ QuickView™ button (QV)
Press this button to instantly switch to the channel that you designated as the QuickView channel. Press again to return to the last channel viewed.

⑧ input button (INPUT)
Use to select the input source you wish to watch:
- TV channels on Antenna A
- TV channels on Antenna B
- Other equipment connected to Input-1, 2, or 3.

⑨ mute control (MUTE)
Use to turn the sound off completely or to restore it to its original volume.

⑩ quick program button (QUICK PROG.)
Use this button to easily program your Mitsubishi VCR. When you press this button, your TV switches to Input-1, your VCR turns on, and the VCR's "Program to record" menu appears. When you are finished programming your VCR, press this button again; your VCR turns off, and your TV returns to its previous position.

If you press this button while the TV is locked, or while using the television's menus, then the VCR turns on, but the TV does not switch inputs.

▷ **Important:**
You must connect a Mitsubishi VCR to your TV with an AV Network cable to use this feature.

⑪ enter button (ENTER)
Use this button after selecting a channel number, and after highlighting an item from the on-screen menu system.

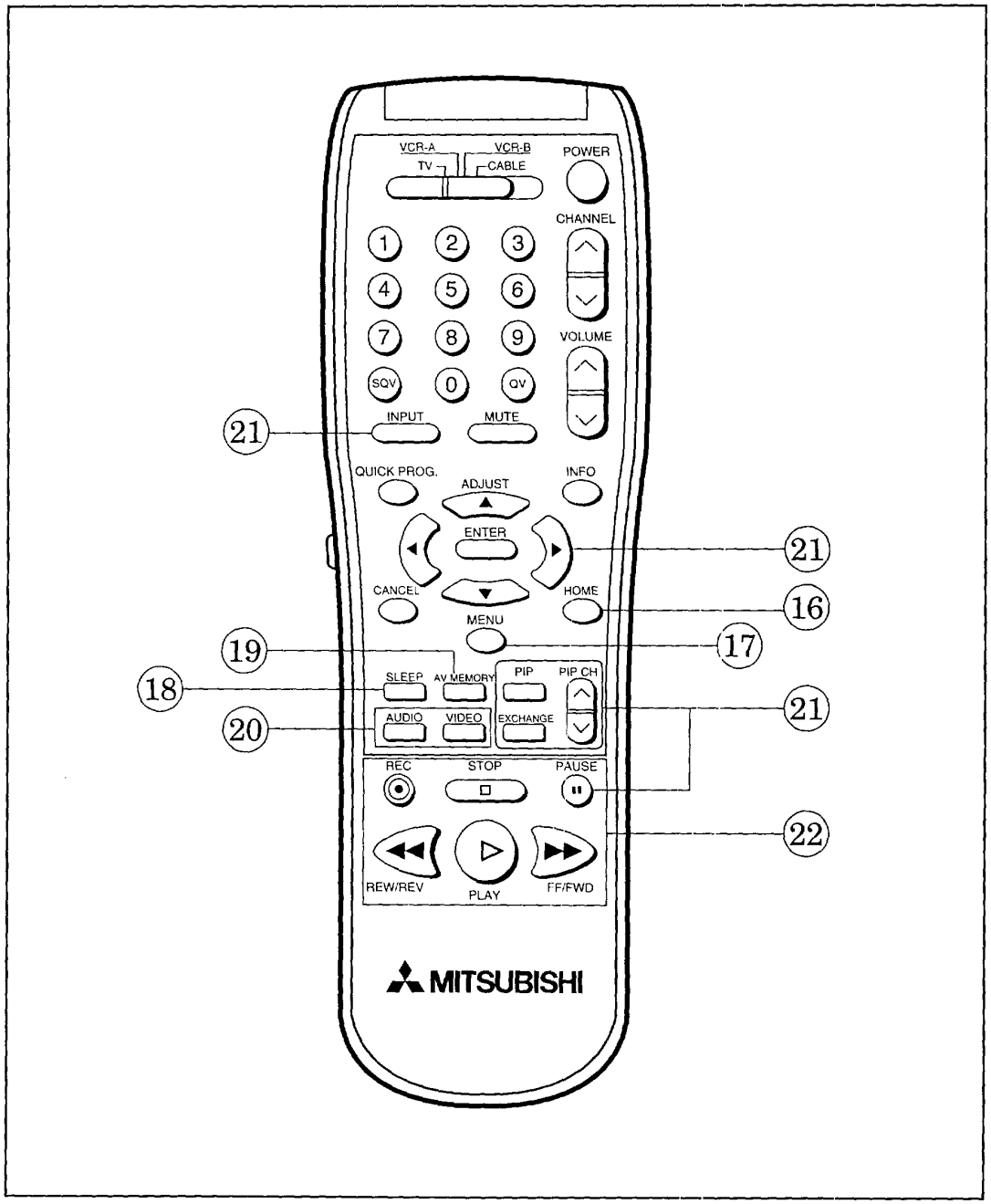
⑫ light button
Use to light up the remote (for 3 seconds).

⑬ adjust buttons (▲, ▼, ◀, ▶)
After selecting an audio or video function, use these buttons to adjust it. Also use these to re-position the picture-in-picture (PIP) image on the screen and to highlight items in the menus.

⑭ information button (INFO)
Use to view an on-screen summary of the current settings for the TV or cable functions and the display related to Extended Data Services (XDS). Also displays menu help.

⑮ cancel button (CANCEL)
Use this button to cancel a channel number, to clear a channel programmed into SuperQuickView memory, and to clear the settings of some on-screen menus.

Remote control buttons and functions (cont.)



⑯ **home button (HOME)**
Press to return to regular TV viewing from the on-screen menus, to turn off the on-screen displays, and to cancel the closed captioning.

⑰ **menu button (MENU)**
Use this button to display the on-screen menu system, which contains additional instructions for special functions.

⑱ **sleep timer button (SLEEP)**
Use to program the TV to turn off automatically at a later time.

⑲ **AV memory button (AV MEMORY)**
Use to select your desired AV memory.

⑳ **audio and video controls**
Use these buttons to select the audio and video settings you want to adjust. Repeatedly press the AUDIO button or VIDEO button to select one of the settings listed below.

- **audio function button (AUDIO)**
  - woofer (CS-35707, CS-40707 only)
  - bass
  - treble
  - balance
  - surround off/hall/simulate
  - stereo/SAP
  - speakers internal/external
  - accessory out PIP/SAP/Main

- **video function button (VIDEO)**
  - tint
  - color
  - contrast
  - brightness
  - sharpness
  - noise reduce on/off
  - color temperature high/middle/low, 6500K
  - color bias accurate/average/skin tone
  - active edge definition on/off

㉑ **picture-in-picture controls**
Use to control the special picture-in-picture (PIP) function. (See "Using the Picture-in-Picture (PIP) Modes" in Chapter 4.)

- **PIP button (PIP)** -- Press to turn on the reduced PIP image, to change its size, or to cancel it. Also use (press and hold) to enter the "PIP Input Adjust" mode. The button is also used with the Active AV Network feature (See "Using the Active AV Network Feature" in Chapter 4.)
- **input button (INPUT)** -- When in the "PIP Input Adjust" mode, press repeatedly to switch the source of the reduced PIP image between the TV and the external inputs.
- **PIP channel button (PIP CH)** -- Press to change the channel of the reduced PIP image.
- **pause button (PAUSE)** -- Press to freeze the reduced PIP image, and to return to a "live" image.
- **exchange button (EXCHANGE)** -- Press to exchange the pictures of the PIP image and the main image.
- **adjust buttons (▲, ▼, ◀, ▶)** -- Press to move the PIP image on-screen.

㉒ **VCR and audio product buttons**
Use these buttons to control VCRs, cassette decks, CD players, etc. These are preprogrammed to operate select Mitsubishi components. The PLAY button is also used with the Active AV Network (See "Using the Active AV Network Feature" in Chapter 4.)

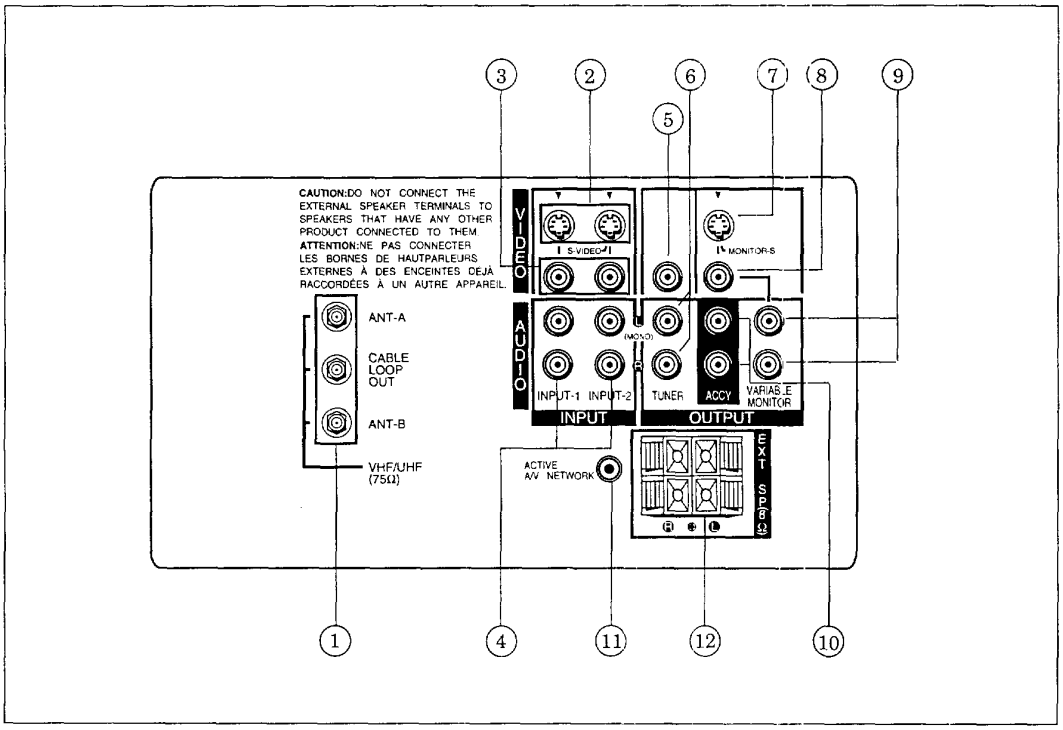
CHAPTER TWO

Connecting Your TV

This chapter offers step-by-step instructions for connecting your TV to most cable systems, VCR's, and other equipment. It contains the following sections:

- **Overview of the Back Panel**
- **Basic Connections**

♦ Overview of the Back Panel



① **antenna terminals (ANT-A, CABLE LOOP OUT, ANT-B)**
Use ANT-A and ANT-B terminals to receive a signal from VHF/UHF antennas or your cable system. Use the CABLE LOOP OUT TERMINAL to send the signal being received by the ANT-A terminal out to another component (such as a VCR).

② **S-VIDEO input terminals**
Use to connect an S-video cable from a VCR, laserdisc player, or camcorder.

▷**Important:** If you connect an S-video cable to INPUT-1 or INPUT-2, the corresponding video input will be disabled.

③ **video input terminals**
Use this yellow terminal to receive the video signal from a standard VCR or another component.

④ **audio input terminals**
Use these red and white terminals to receive the audio signal from a VCR or other equipment.

Overview of the back panel (cont.)

⑤ **video tuner output terminal**
Use this yellow terminal to transmit the TV tuner's video signal to a Home Theater receiver.

⑥ **audio tuner output terminals**
Use these red and white terminals to transmit the TV tuner's audio signal to a Home Theater receiver.

⑦ **S-video monitor output terminal**
Use to transmit an S-video signal from the TV to a VCR, Video Copy Processor, etc.

⑧ **video monitor output terminal**
Use this yellow terminal to transmit the standard video from the TV to a VCR, Video Copy Processor, etc.

⑨ **audio monitor output terminals**
Use these red and white terminals to transmit the TV's audio signal to an audio amplifier.

⑩ **audio ACCY output terminals**
Use to connect the accessory equipment.

⑪ **Active A/V Network terminal**
Use to connect Mitsubishi products that have A/V network terminals.

⑫ **external speaker terminals**
Use to connect external speakers. **Only use speakers with a nominal impedance of 8 ohms.**

▶Warning: Never connect equipment other than speakers to the external speaker terminals. Don't connect speakers that are already hooked up to an amplifier.

♦ Basic Connections

This section explains the basic connections you need to make between your TV, antennas, VCR, and other equipment. Different connections are shown depending on whether you have a cable box and the type of antenna you are using. Choose the type of connection for the equipment you have.

This section explains:

- **TV + external speakers,**
- **TV + antenna or cable without a cable box,**
- **TV + cable with a cable box,**
- **TV + separate UHF and VHF antennas,**
- **TV + VCR + antenna or cable without a cable box,**
- **TV + VCR + cable with a cable box,**
- **TV + home theater receiver (A/V receiver),**
- **TV + stereo audio system, and**
- **TV + Mitsubishi products that have A/V Network terminals.**

▶Warning: You should unplug your TV and any other components before connecting them.

Depending on your system, you may have to make connections described in more than one of the sections above.

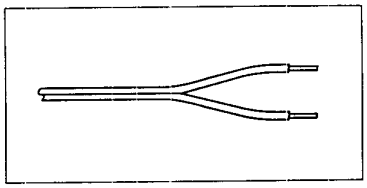
To complete the appropriate connections for your system, you may also need to purchase additional accessories, such as cables, adaptors, or splitters. These accessories are sold by electronics stores, your Mitsubishi dealer, and many places that sell A/V equipment.

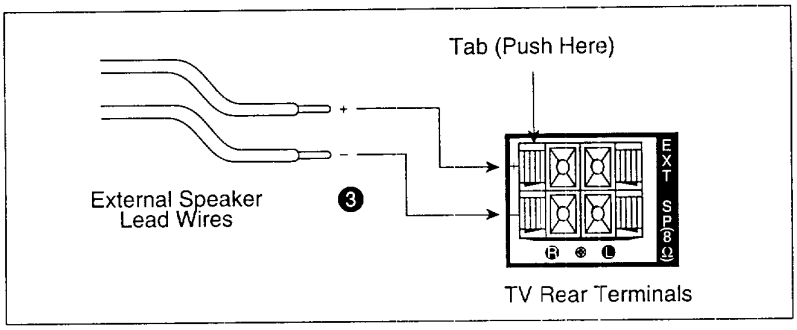
TV + external speakers

equipment you will need

To complete this hook-up, you will need:

- one set of speaker lead wires.



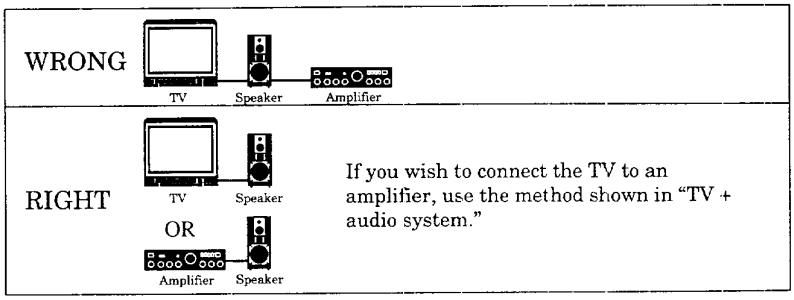


procedure

1. Unplug the TV.
2. Connect the speaker wires to the external speakers.
3. Push down on the tab of the external speaker (EXT SP) terminal on the back panel of the TV. Insert the appropriate speaker lead into the terminal. Be sure that the + and – leads from the speakers are connected to the matching + (red) and – (black) external speaker terminals.
4. To listen to external speakers, set the speaker mode to "External" using the on-screen audio functions. (See "Adjusting the sound" in Chapter 3.)

▶Warning: Never connect equipment other than speakers to the external speaker terminals.

You should make this connection in addition to one of the other connections in this chapter, not instead of other connections.



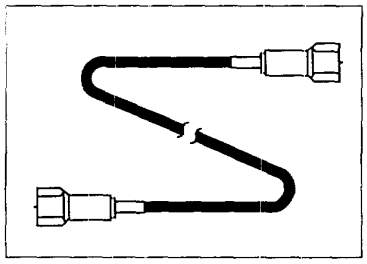
TV + cable with a cable box

equipment you will need

Use this hook-up if you need a cable box to descramble some of your cable signals. When you complete this hook-up, you may want to set up your remote control to operate your cable box. (See "Using the remote control to operate VCRs, cable boxes and other equipment" in this chapter.)

To complete the hook-up, you will need:

- two 75 ohm coaxial cables.



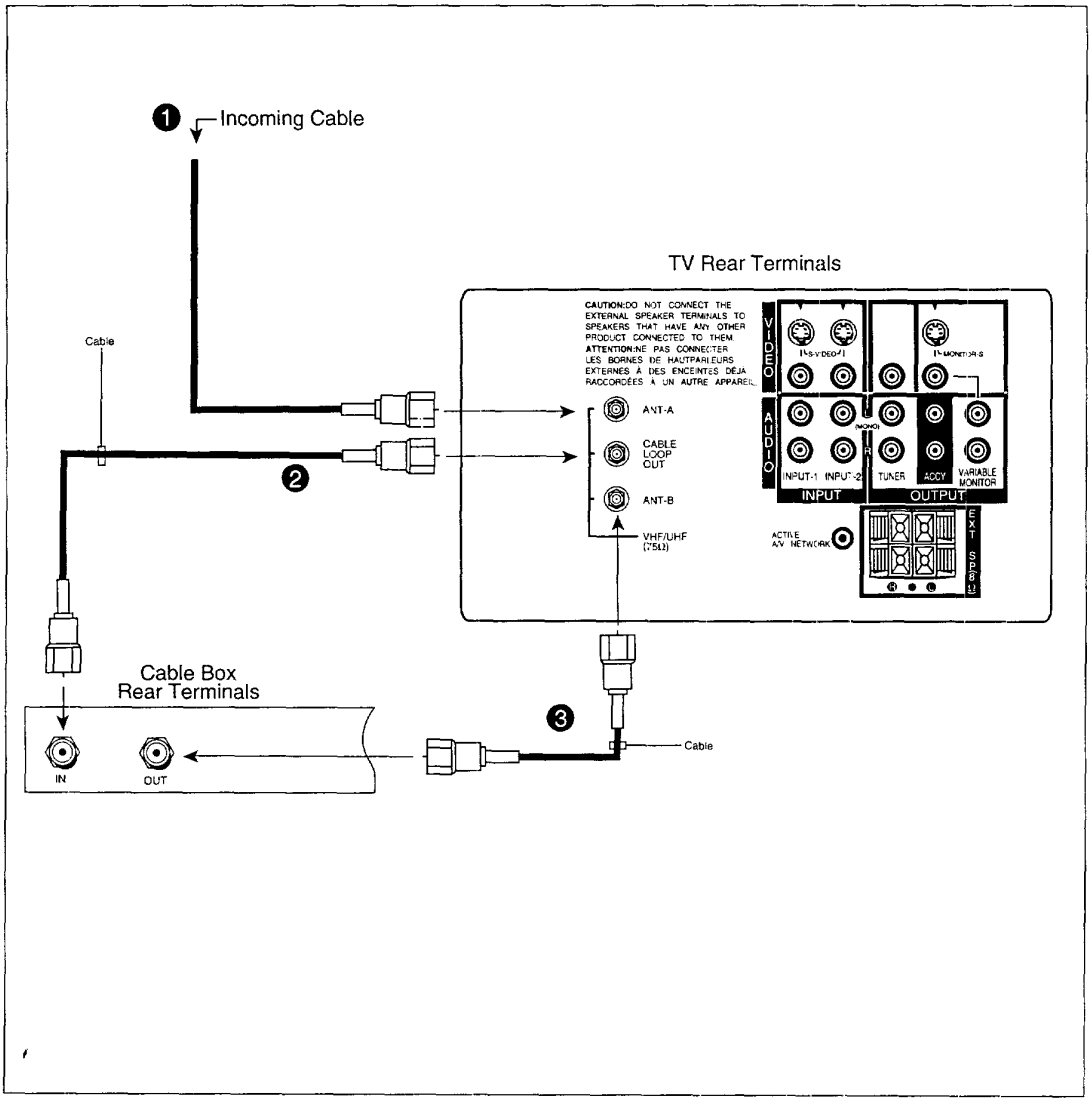
procedure
(Please see illustration on the following page.)

1. Connect your cable system's incoming cable to the ANT-A terminal on the back of the TV.

2. Connect the first coaxial cable to the CABLE LOOP OUT terminal on the back of the TV; connect the other end of this cable to the IN terminal on the back of the cable box.

3. Connect the second coaxial cable to the OUT terminal on the back of the cable box; connect the other end of this cable to the ANT-B terminal on the back of the TV.

TV + cable with a cable box (cont.)

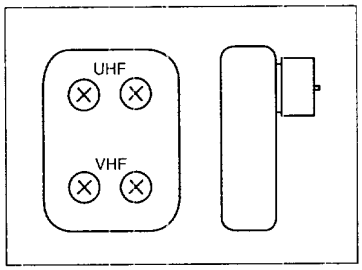


TV + separate UHF and VHF antennas

equipment you will need

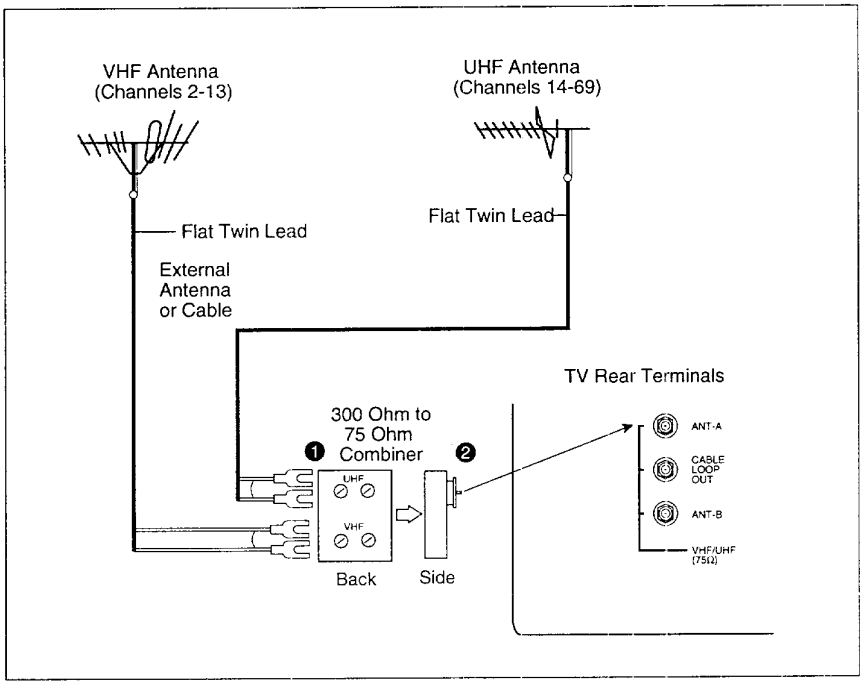
If you have separate UHF and VHF antennas, you need to combine the antennas to connect them to the TV. To do this, you need a UHF/VHF combiner. (There are different combiners for different kinds of leads. Check with your local electronics store for the kind of combiner you need.)

Pictured to the right is a standard combiner.



To connect separate UHF and VHF antennas to your television:

1. Connect the UHF and VHF antenna leads to the appropriate terminals on the UHF/VHF combiner.
2. Press the combiner onto the ANT-A terminal on the television.

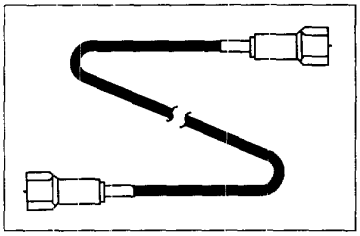


TV + VCR + antenna or cable without a cable box

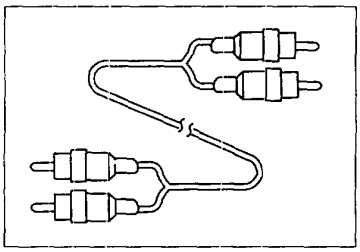
equipment you will need

You may want to connect a VCR along with your antenna or cable system to your TV. To complete this hook-up, you may need the following equipment.

- one 75 ohm coaxial cable,

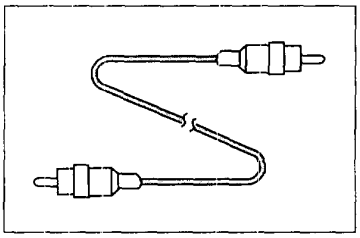


- one set of RCA pin-type audio cables,

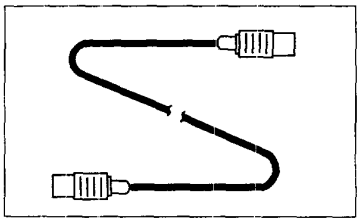


- one RCA pin type video cable, (if connecting a standard VCR),

  OR



- one S-video cable (if connecting a VCR with an S-video output).



TV + VCR + antenna or cable without a cable box (cont.)

procedure
(Please see illustration on the following page.)

❶ Connect the incoming cable or antenna to the ANTENNA IN terminal on the VCR.

❷ Connect one end of a coaxial cable to the ANTENNA OUT terminal on the VCR.

❸ Connect the other end of the coaxial cable to the ANT-A terminal on the TV.

❹ Do ONE (not both) of the following:

- Connect a video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.

- Connect an S-video cable to the S-VIDEO OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO INPUT terminal on the back of the television.

❺ Connect audio cables to the AUDIO OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.

❻ Connect the other ends of these cables to the AUDIO INPUT terminals on the back of the television.

▷**Important:** If your VCR is monaural (non-stereo), only connect a single audio cable. Connect this cable to the AUDIO OUT terminal on the VCR, then connect the other end of the cable to the L (LEFT) audio input on the back of the television.

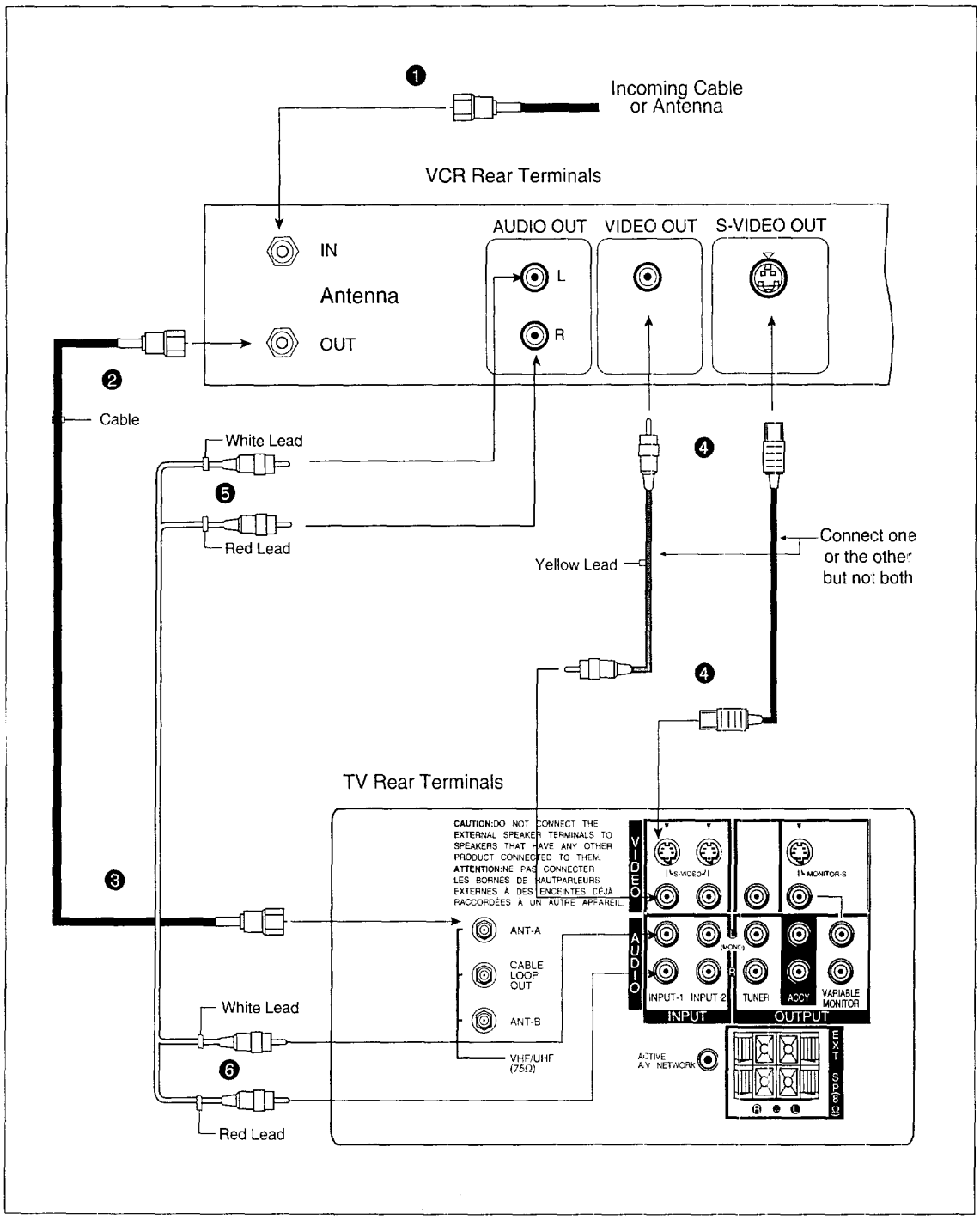
▷**Important:** If your VCR has a video channel switch with an "OFF" setting or an "AV" setting, set the switch to that setting.

❼ Begin playing a tape of the VCR.

❽ Use the INPUT button on the control panel or on the remote control to select the input (INPUT-1 or INPUT-2) to which you connected the VCR.

▷**Important:** If you are using the AV network with your Mitsubishi VCR, you must connect the VCR to INPUT-1.

TV + VCR + antenna or cable without a cable box (cont.)



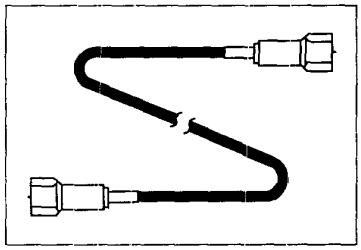
TV + VCR + cable with a cable box

equipment you will need

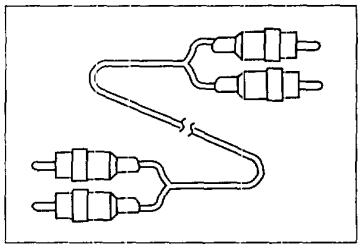
This hook-up allows you to record a scrambled channel while watching a non-scrambled channel. When you complete this hook-up, you should set up your remote control to operate your cable box. (See "Using the remote control to operate VCRs, cable boxes and other equipment" in this chapter.)

To complete the hook-up, you will need:

- three 75 ohm coaxial cables,

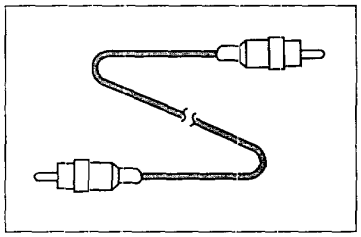


- one set of RCA pin-type audio cables,

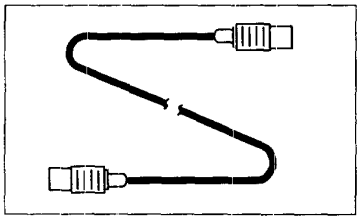


- one RCA pin-type video cable, (if connecting a standard VCR),

OR



- one S-video cable (if your VCR has an S-video output).



TV + VCR + cable with a cable box (cont.)

procedure
(Please see illustration on the following page.)

1. Connect your cable system's incoming cable to the ANT-A terminal on the back of the TV.

2. Connect the first coaxial cable to the CABLE LOOP OUT terminal on the back of the TV; connect the other end of this cable to the IN terminal on the back of the cable box.

3. Connect the second coaxial cable to the OUT terminal on the back of the cable box; connect the other end of this cable to the ANTENNA-IN terminal on the back of the VCR.

4. Connect the third coaxial cable to the ANTENNA-OUT terminal on the back of the VCR. Connect the other end of this cable to the ANT-B terminal on the back of the TV.

5. Do ONE (not both) of the following:
   - Connect a video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.
   - Connect an S-video cable to the S-VIDEO OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO INPUT terminal on the back of the television.

6. Connect a set of audio cables to the AUDIO OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.

7. Connect the other ends of these cables to the AUDIO INPUT terminals on the back of the television.

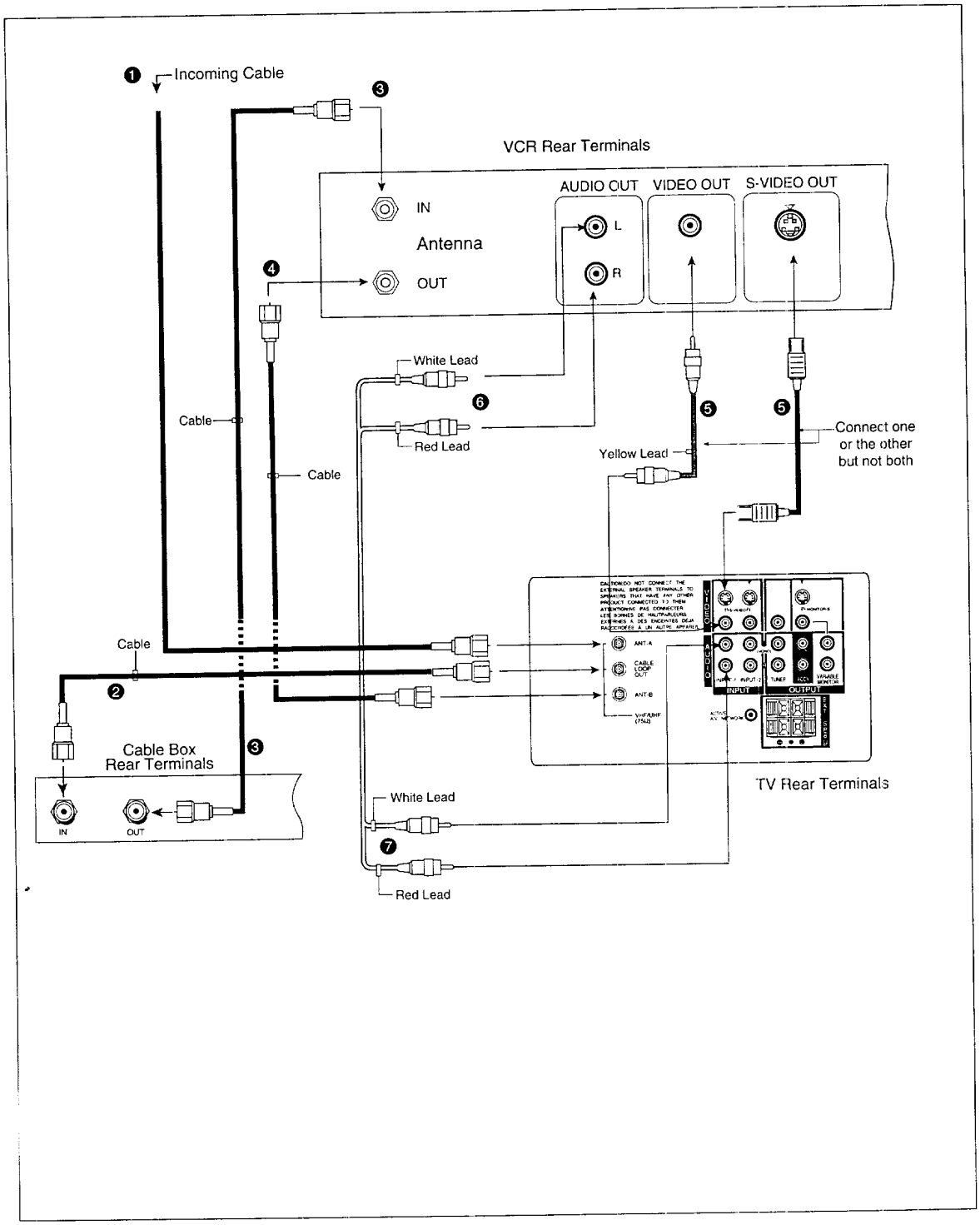
▷**Important:** If your VCR is monaural (non-stereo), only connect a single audio cable. Connect this cable to the AUDIO OUT terminal on the VCR, then connect the other end of the cable to the L (LEFT) audio input on the back of the television.

▷**Important:** If your VCR has a video channel switch with an "OFF" setting or an "AV" setting, set the switch to that setting.

8. Start playing a tape on your VCR.

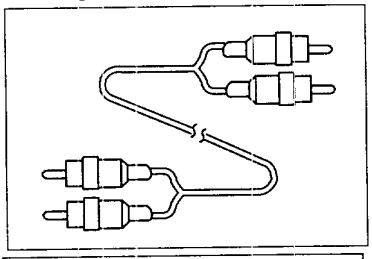
9. Use the INPUT button on the control panel or on the remote control to select the input (INPUT-1 or INPUT-2) to which you connected the VCR.

TV + VCR + cable with a cable box (cont.)



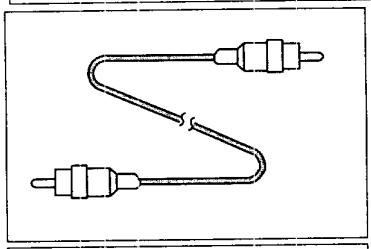
TV + home theater receiver (A/V receiver)

A home theater (A/V) receiver has video inputs and outputs and is used to control an A/V system. See your receiver's owner's guide for information about connecting VCRs and other equipment. If your receiver does not have video inputs and outputs, see " TV + stereo audio system" in this chapter.

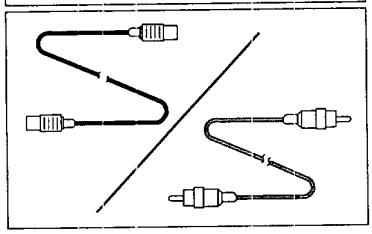


equipment you will need

- one set of RCA pin-type audio cables,



- one RCA pin-type video cable (to complete step ❶ below), and



- either one S-video cable or a second RCA pin-type video cable to complete step ❷.

procedure
(Please see illustration on the following page.)

❶ Connect one end of a RCA video cable to the TV VIDEO INPUT terminal of the home theater receiver. Connect the other end of this cable to the VIDEO TUNER OUTPUT terminal on the back of the television.

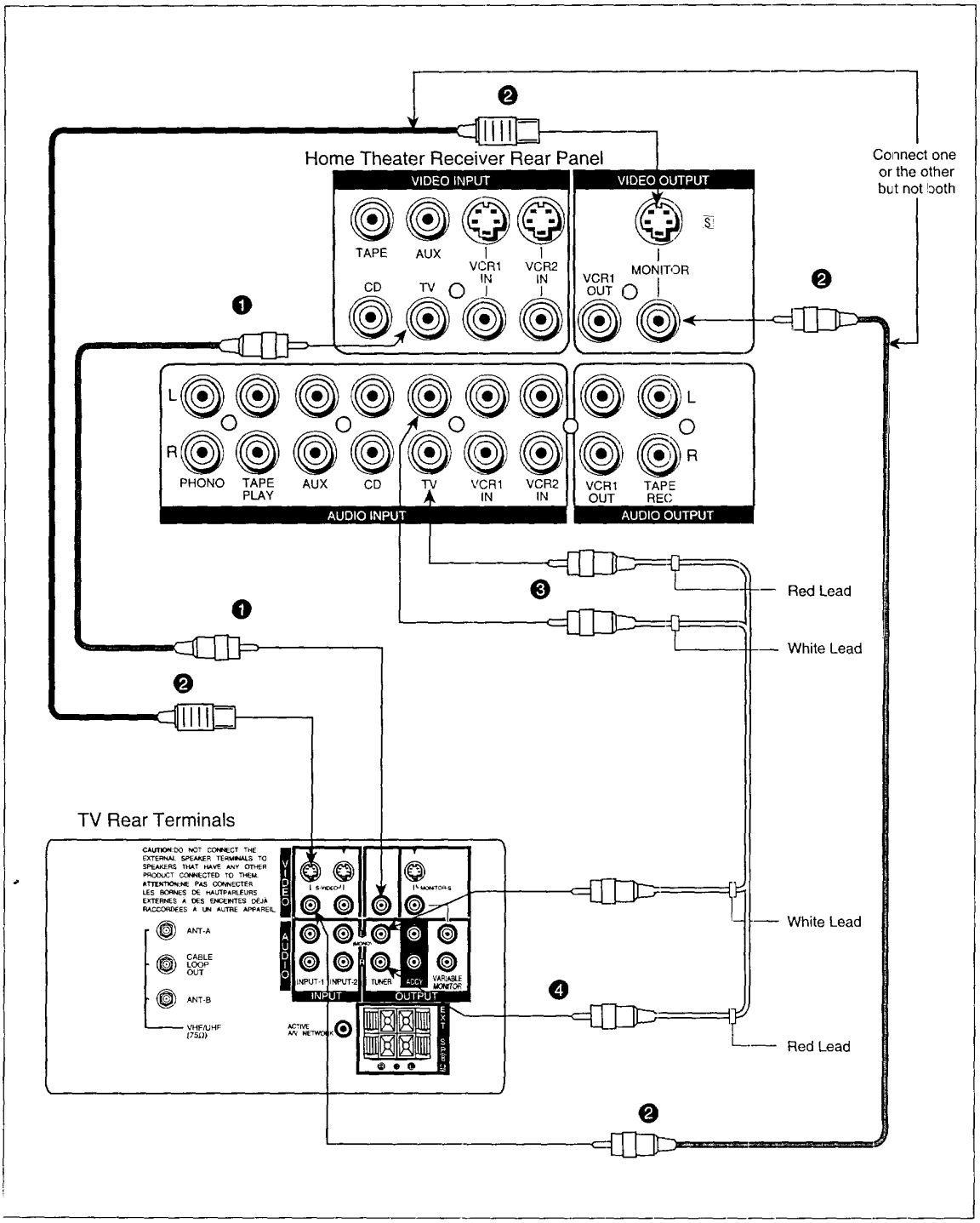
❷ Do ONE (not both) of the following:

- Connect a video cable to the VIDEO MONITOR OUT terminal on the back of the receiver. Connect its other end to the INPUT-1 VIDEO INPUT terminal on the television.
- Connect an S-video cable to the S-VIDEO OUT terminal on the receiver. Connect the other end of this cable to the INPUT-1 S-VIDEO INPUT terminal on the television.

❸ Connect audio cables to the TV AUDIO INPUT terminal of the home theater receiver. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.

❹ Connect the other ends of these cables to the left and right AUDIO TUNER OUTPUT terminals on the television.

TV + home theater receiver (A/V receiver) (cont.)



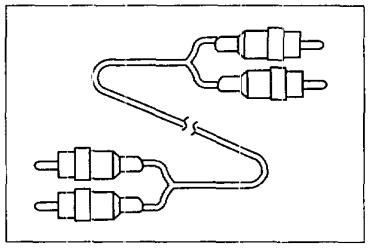
TV + stereo audio system

You may want the sound from your TV and/or VCR to play through your home audio system. To do this, complete the necessary connections shown on previous pages of this chapter, and then complete the following instructions.

equipment you will need

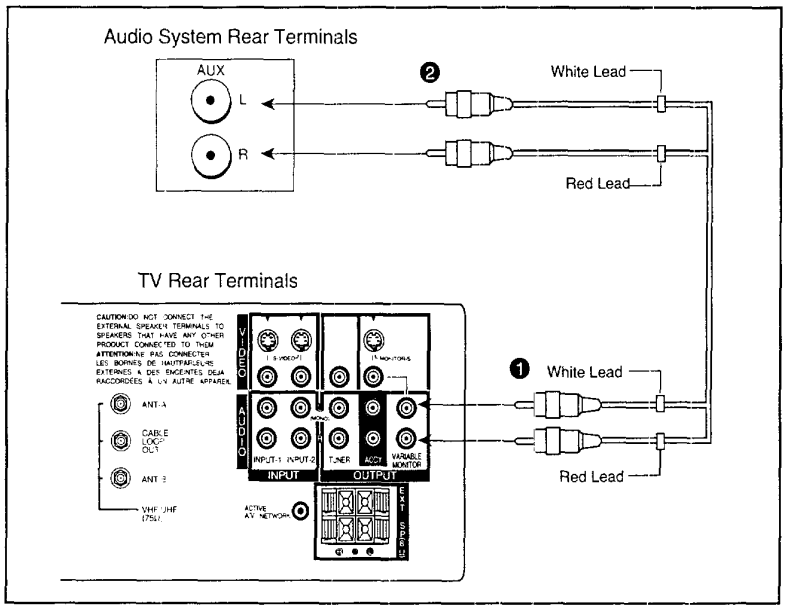
To hook-up an audio system, you need:

- one set of RCA pin-type audio cables.



procedure

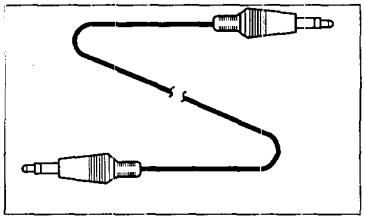
1. Connect audio cables to the AUDIO VARIABLE MONITOR OUTPUT terminals on television. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.
2. Connect the other ends of these cables to the AUX IN terminals on the back of the audio system.
3. Turn off the television's speakers. To do this, press the AUDIO button on the control panel or remote control until you see the "Speakers" display. Set the speakers to "External" by pressing the ADJUST buttons. See "Adjusting the sound," in Chapter 3.
4. Set the audio system's input to the AUX position.



TV + Mitsubishi products that have A/V Network terminals

The A/V Network is a special system that Mitsubishi developed to make it easier to operate your system with one remote control. When the supplied cable is connected between two Mitsubishi products with the A/V Network, you can point the remote control at one product and it will "pass" the command to the other.

equipment you will need



- one A/V network cable (included with the TV).

Procedure

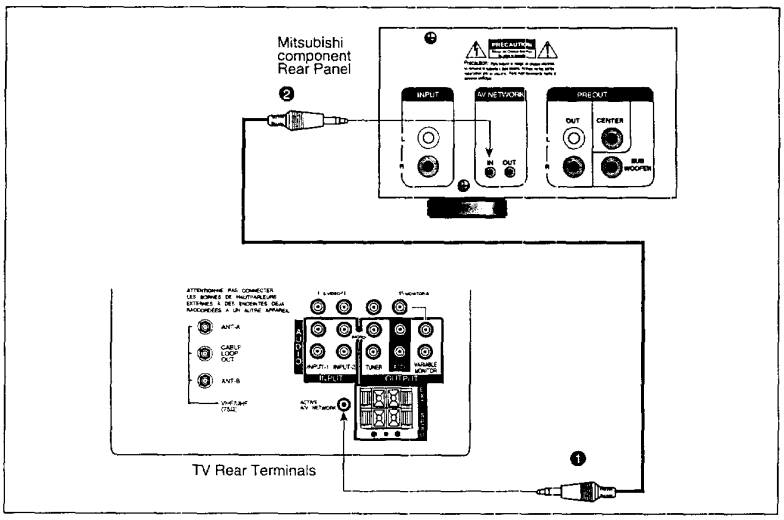
❶ Connect one end of an A/V network cable to the ACTIVE A/V NETWORK terminal on the back of the TV.

❷ Connect the other end of this cable to the A/V NETWORK IN terminal on the back of a Mitsubishi component that has an A/V network terminal.

❸ You can now point your component remote (such as a VCR remote) directly at the television. The A/V cable "passes" the remote commands to the component.

▷**Important:** You should make this connection in addition to one of the other connections in this chapter, not instead of other connections.

▷**Important:** Check the owner's guide of each AV Network component for more information.



CHAPTER THREE

Operating Your TV

Now that your TV is connected to a cable system, an antenna, and possibly some external components, it's time to enjoy your equipment. This chapter explains how to operate the TV.

You'll find information on:

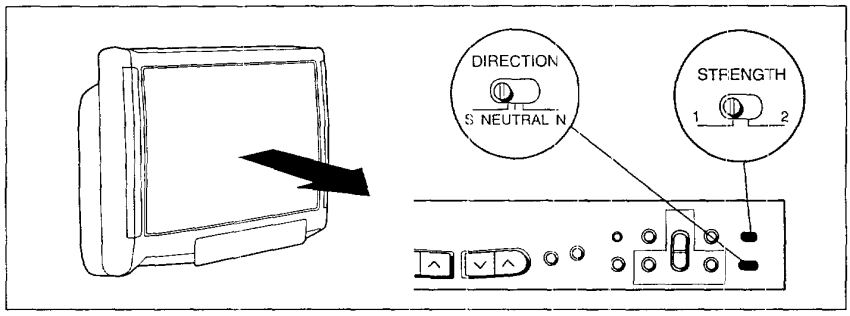
- **Adjusting the color purity,**
- **Using the remote control to operate VCRs, cable boxes, and other equipment,**
- **Turning the TV on/off,**
- **Selecting the input source to watch your VCR or other equipmnent,**
- **Changing channels,**
- **Understanding the 3-D Graphic ViewPoint® on-screen menus,**
- **Memorizing channels,**
- **Setting the clock,**
- **Setting the AV Network,**
- **Setting the timer,**
- **Editing the channels,**
- **Using the closed caption decoder,**
- **Using the parent lock,**
- **Selecting the AV memory,**
- **Adjusting the sound, and**
- **Adjusting the picture.**

Adjusting the color purity

Because your Mitsubishi color television has a large-screen picture tube, the earth's magnetic field can produce discolored patches on the edges of your screen. To avoid this problem, follow these instructions when you first install your television:

❶ Turn off the TV set.

❷ Determine the compass direction the screen is facing.



❸ Select the position for the DIRECTION switch according to the the chart below.

TV SET DIRECTION	DIRECTION SWITCH S NEUTRAL N
North	X
North East	X
North West	X
South	X
South East	X
South West	X
East	X
West	X

❹ Turn the TV on and check the color performance.

- If color impurity is still present, change the STRENGTH switch to the other position. If there is still impurity, wait a few minutes, then press the DEGAUSS button on the control panel.
- You may need to adjust the color purity switches if you change position or location.
- If there is still color impurity after adjusting the switches, please contact your Mitsubishi Authorized Warranty Center.

▷**Important:** Color impurity can also be caused by unshielded speakers and strong magnets. Move these items away from your TV.

Using the remote control to operate VCRs, cable boxes and other equipment

about your remote control

This TV's remote control has four "layers": the TV layer, the VCR-A layer, the VCR-B layer, and the CABLE layer. Each layer can be used to operate a different component in your A/V system. You select the layer you want to use by setting the "select" switch across the top of the remote control.

When you first receive your remote control, the TV layer is set up to operate your Mitsubishi TV, the VCR-A and VCR-B layers are programmed to operate Mitsubishi VCRs, and the CABLE layer is set to operate RCA DSS satellite receiver.

You can use the following buttons to operate your TV:

- power button
- pause button
- mute control
- SuperQuickView™ button
- QuickView™ button
- volume control
- input button
- channel control
- enter button
- audio and video controls
- menu button
- cancel button
- information button
- home button
- sleep timer button
- number buttons
- PIP controls

If you have a cable box (including the digital satellite box), a non-Mitsubishi VCR, a Mitsubishi laserdisc player, an A/V receiver, or a compact disc, you can set up the layers in the remote control to operate these components.

The VCR-A layer can be set to operate a non-Mitsubishi VCR; the VCR-B layer can be set to operate another VCR, cable box, or Mitsubishi laserdisc player; the CABLE layer can be set up to operate a cable box, laserdisc player, or A/V receiver; and the TV layer can be set to operate an A/V receiver.

setting up the remote control to operate your VCR

❶ Turn off your VCR.

❷ Set the select switch on the top of the remote to choose the layer you want to set up: VCR-A or VCR-B.

❸ While holding in the POWER button on the remote control, enter the code number listed in the chart on the following page for your brand of VCR. Be sure to enter both digits of the code number. If more than one number is listed, start with the first one.

If your VCR is this brand...	...enter this code	If your VCR is this brand...	...enter this code	If your VCR is this brand...	...enter this code
Mitsubishi (A)	01	Magnavox	03, 10, 11	Scot	15
Mitsubishi (B)	02	Multitech	06	Sharp	16
Canon	03	NEC	12	Sony	17, 18
Emerson	04, 05	Panasonic	03	Sylvania	03, 10, 11
Funai	06	Philco	03, 10	Symphonic	06
General Electric	03	Philips	03, 10, 11	Teknika	04, 06
Goldstar	07	Quasar	03	Toshiba	15
Hitachi	08	RCA	08, 13, 20	Totevision	07
JVC	09	Sanyo	14	Zenith	19

❹ Release the POWER button.

❺ Press the POWER button again. Your VCR should turn on. If the VCR turns on, your remote control is now set to operate your VCR.

If your VCR does not turn on, repeat the instructions, trying each code number listed for your brand of VCR. If none of these code numbers work, try each number, 01 through 20.

using your remote control to operate your VCR

After you set up your remote control for your particular brand of VCR, you can use the remote to operate your VCR.

❶ Use the select switch on the top of the remote to choose the layer that you set up to operate your VCR: VCR-A or VCR-B.

❷ Point the remote control at the VCR and press the desired buttons.

If you are using a Mitsubishi VCR, you can use all of the buttons on the remote control to operate your VCR except for MUTE, VOLUME, and the PIP function buttons. These buttons always operate the TV itself.

If you are using another brand of VCR, you can use the POWER, CHANNEL, REC, STOP, PAUSE, REW, PLAY, and FF buttons to operate your VCR.

setting up the remote control to operate your cable box

❶ Turn on your cable box.

❷ Set the select switch on the top of the remote to choose the layer you want to set up: CABLE or VCR-B.

❸ While holding in the POWER button on the remote control, enter the code number listed in the chart on the following page for your brand of cable box. Be sure to enter both digits of the code number. If more than one number is listed, start with the first one.

Using the remote control to operate VCRs, cable boxes and other components (cont.)

If your cable box is this brand...	...enter this code	If your cable box/satellite is this brand...	...enter this code	If your cable/satellite box is this brand...	...enter this code
ABC	57, 59, 62, 67, 89	Oak	61, 62, 82	Scientific Atlantic	66, 88, 89, 91, 92
Color Voice	73, 74, 98	Panasonic	63, 70	Signature	57
Comtronics	93	Paragon	51	Sony DSS	47
Gemini	55	Philips	73, 74, 75, 76, 77	Sprucar	63
General Electric	66		93, 94, 98, 99	Starcom	54, 55, 56, 87
General Instruments	55, 56, 57	Pioneer	64, 65, 84	Stargate	55
Hamlin	52, 53, 69	Prime Star	48	Tocom	67, 68, 72
Hitachi	57	Pulsar	51	Toshiba	51
Jerrold	54, 55, 56, 57, 58 59, 60, 85, 87	RCA	63	United Artists	62
		RCA DSS	49	United Cable	54
Macom	71	Regal	53	Viewstar	93, 94
Magnavox	94	Regency	79	Zenith	51
Memorex	51	Samsung	65, 84		

❹ Release the POWER button.

❺ Press the POWER button again. Your cable box should turn off. If the cable box turns off, your remote control is now set to operate your cable box. If your cable box does not turn off, repeat the instructions above, trying each code number listed for your brand of cable box. If none of these numbers work, try each number, 51 through 99.

▷**Important:** After setting up your remote, be sure that your cable box can be turned on with the POWER button. If not, some of the cable boxes can be turned on with the CHANNEL buttons or the number buttons.

using your remote control to operate your cable box

After you set up your remote control for your particular brand of cable box, you can use the remote to operate your cable box.

❶ Use the select switch on the top of the remote control to choose the layer that you set up to operate your cable box: CABLE or VCR-B.

❷ Point the remote control at the cable box and press the desired buttons.

You can use the POWER, CHANNEL, numbers (0–9), and ENTER buttons to operate your cable box. If you are using an RCA DSS or Prime Star converter, you may be able to use additional buttons.

Using the remote control to operate VCRs, cable boxes and other components (cont.)

setting up the remote control to operate your Mitsubishi audio component (laserdisc player or A/V receiver)

1. Turn off your audio component.

2. Set the select switch on the top of the remote to choose the layer you want to set up. For a laser disc player, choose CABLE or VCR-B. For an A/V receiver or CD player, choose CABLE.

3. While holding in the POWER button on the remote control, enter one of these code numbers:

   - For a Mitsubishi A/V receiver, compact disc: 30, 31 or 35
   - For a Mitsubishi laserdisc player: 32 or 33
   - For a Yamaha A/V receiver, compact disc: 36 or 37

   Be sure to enter both digits of the code number. If more than one number is listed, start with the first one.

4. Release the POWER button.

5. Press the POWER button again. Your audio component should turn on. If it does, your remote control is now set to operate your audio component. If it does not turn on, repeat the instructions above, trying the other code number listed for your component.

using your remote control to operate your Mitsubishi laserdisc player

After you set up your remote control for your laserdisc player, you can use the remote to operate the player.

1. Use the select switch on the top of the remote to choose the layer that you set up to operate your laserdisc player: CABLE or VCR-B.

2. Point the remote control at the laserdisc player and press the desired buttons.

   You can use the POWER, numbers (0–9), INFO, MENU, CANCEL, STOP, PAUSE, REW, PLAY, and FF buttons to operate your laserdisc player.

Using the remote control to operate VCRs, cable boxes and other components (cont.)

using your remote control to operate your Mitsubishi Audio Products

After you set up your remote control for your A/V receiver, you can use the remote to operate it.

1. Use the select switch on the top of the remote to choose the CABLE layer.

2. Point the remote control at the A/V receiver and press the desired buttons.

   If you are using a Mitsubishi HTS-100, you can use the POWER, VOLUME, and MUTE buttons to operate the receiver.

   If you are using a Mitsubishi HTS-300, you can use the POWER, CHANNEL, INPUT, VOLUME, ENTER, number (0–9), INFO, MENU, CANCEL, AUDIO, VIDEO, ADJUST, and MUTE buttons to operate the receiver.

   If you are using a Mitsubishi M-VR400 or M-VR600, you can use the POWER, VOLUME, number (0-9), and MUTE buttons to operate the receiver.

   If you are using the Mitsubishi M-CD500 CD changer, you can use the PLAY, PAUSE, STOP, FF, and REW buttons to operate the CD changer.

notes about your remote control

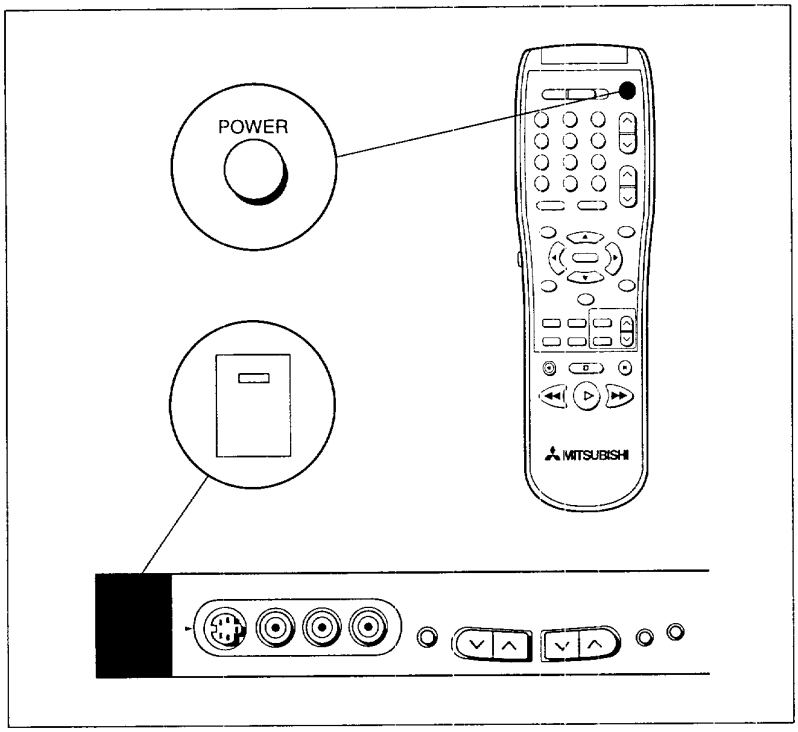
▷**Important:** Sometimes manufacturers change their products, or they may use more than one code. If this is the case, your remote may not be able to operate your VCR or cable box.

▷**Important:** When you replace the batteries in your remote control, the remote usually returns to its initial setting. You may need to set up your remote again.

Turning the TV on/off

▷**Important:** Before using the remote control to operate the TV, set the select switch on the top the remote control to "TV."

Use the POWER button on either the control panel or the remote control to turn the TV on and off. The power indicator lights in green when you turn the TV on.

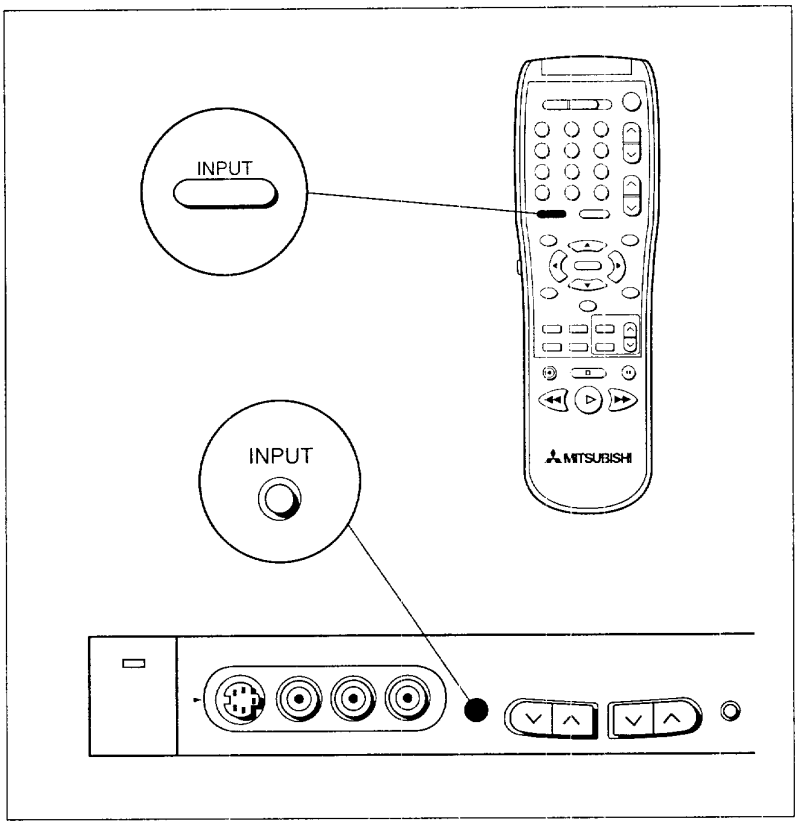


▷**Important:** There is always a small amount of current flowing into the TV, even when the power is turned off. This maintains any changes to the TV's settings and operates the built-in clock and timing functions. Unplugging the set erases these settings, requiring you to set them again. Unplug the TV only when it won't be used for a long time or during a lightning storm.

Selecting the input source

If you connect components such as VCRs, camcorders, or laserdisc players to your TV, you need to change the input source to view the signals from these components.

To select an input source, press the input button (INPUT) on the control panel or on the remote control.



You can choose between the following input sources:

- Ant-A or Ant-B (antennas or cable systems connected to the antenna terminals),
- Input-1 or Input-2 (components connected to the terminals on the back of your television), or
- Input-3 (a component connected to the terminals on the front of your television).

The name of the input you have selected will be displayed briefly in the corner of the screen.

Changing channels

Your TV offers four ways to change channels once they have been programmed into channel memory:

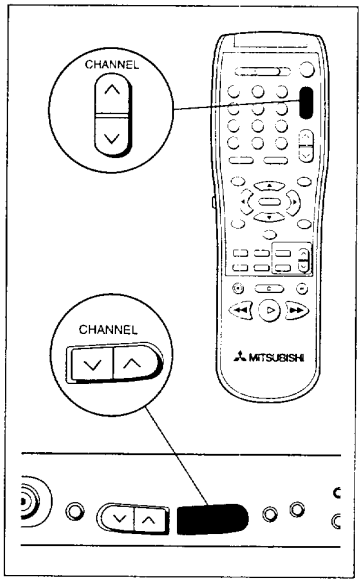
- selecting channels one-by-one with the channel controls,
- directly accessing a channel by pressing the number buttons,
- using the special QuickView™ option to switch to the memorized QuickView channel, and
- using the SuperQuickView™ function to easily switch to the channels that are memorized in the SuperQuickView list.

▷**Important:** You cannot change channels one-by-one until available channels have been programmed into memory. (See "Memorizing channels," in this chapter.)

To change channels faster, use either of the following procedures:

- For 1 digit channels, enter zero first. (For example, enter "04" to view channel 4.)
- For 2 digit channels, just enter the channel number.
- For 3 digit channels like channel 125, press the first digit "1" for one second until the on-screen display becomes "1 - -." Then enter "2" and "5."

▷**Important:** Cable channel numbers 0 and greater than 125 are not used. TV stations 0, 1, and greater than 69 are not used. If you select one of these channel numbers, your TV will not change channels.

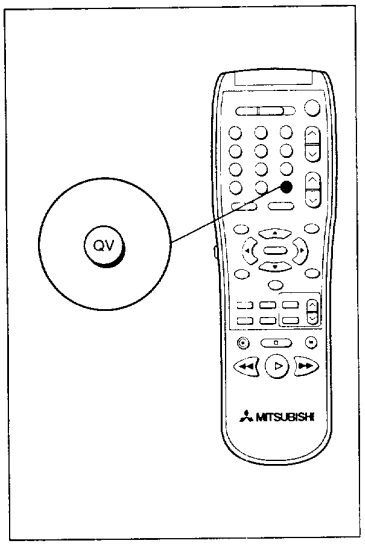


changing channels one-by-one

To change channels:

❶ Press one of the channel controls (CHANNEL) on the control panel or on the remote control. The TV automatically tunes to the next memorized channel.

Changing channels (cont.)



using the QuickView™ option

The **QuickView** feature can work in two ways: to recall the last channel viewed (Last Channel Recall), *or* to recall a channel you put into QuickView memory.

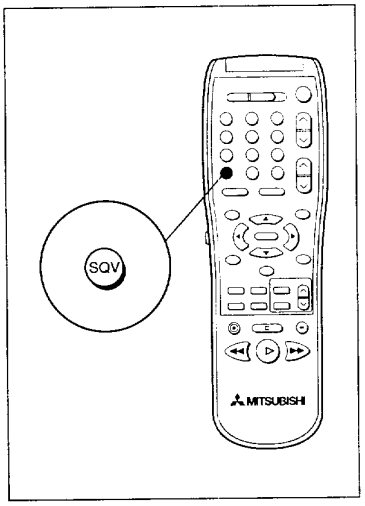
- If you have not memorized any channels into QuickView Memory, **Last Channel Recall** allows you to use the QV button to switch back and forth between the last two channels viewed.
- **QuickView Memory** allows you to use the QV button to switch back and forth between the last channel you were watching and the channel you put into QuickView memory.

Setting the QuickView memory

1. Tune to the channel you wish to memorize.
2. Press and hold the QV button for about 2 seconds. The channel numbers will appear on the screen, indicating that you have memorized that channel.
3. After changing to another channel, press the QV button to immediately return to the memorized channel.
4. If you press the QV button while watching the memorized channel, you will return to the last channel viewed.

▷**Important:** The memorized QV channel will remain in memory until you replace it with a new channel using the procedure above.

Changing channels (cont.)



using the SuperQuickView™ option

To view the channels programmed into SuperQuickView memory, press the SQV button repeatedly. This displays your SuperQuickView channels in sequence.

(See "Editing the channels," in this chapter for information on programming your favorite channels into SuperQuickView memory.)

Understanding the 3-D Graphic ViewPoint® on-screen menus

One of the distinctive features of this TV is Mitsubishi's exclusive 3-D Graphic ViewPoint On-Screen Operating System.

Unlike other television menus systems, 3-D Graphic ViewPoint includes a special Picture-in-Picture screen to let you view the TV picture while you move through the menu items.

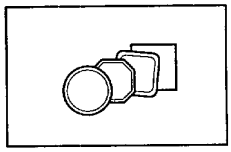
Additionally, your television's 3-D Graphic ViewPoint menu system includes a comprehensive help system if you need assistance understanding a menu option. Simply select the menu option and press the INFO button on your remote control to display help text.

3-D Graphic ViewPoint also provides step-by-step instructions for using some of the TV's special capabilities.

When using the 3-D Graphic ViewPoint system, please keep the following in mind:

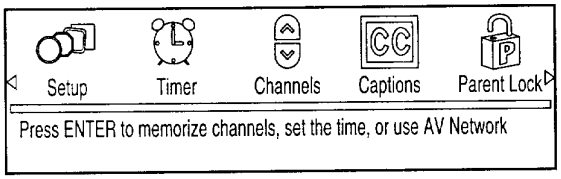
- The selected menu is indicated in blue, and the setting item in yellow.
- The on-screen menu turns off if no item is selected within 4 minutes.
- Some on-screen menu items must be set before other items are available. For example, "Timer" is only available if "Clock Settings" under the Setup menu is set.
- You can exit the on-screen menus any time by pressing the MENU button repeatedly. You then return to regular TV viewing.
- You can also exit the on-screen menus by pressing the HOME button on the remote control.

▷**Important:** If you press the VOLUME, AUDIO, VIDEO or MENU buttons while the TV is receiving a very weak signal, the background image may be eliminated to stabilize the on-screen display. You can press the HOME button to return to the normal TV viewing.



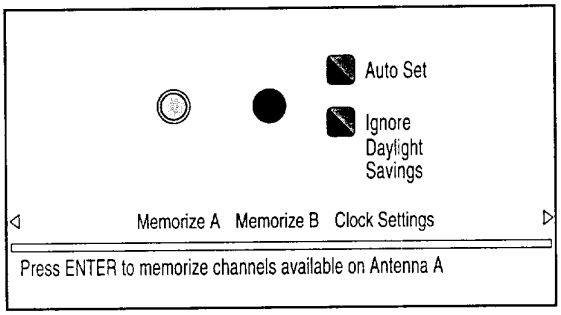
Memorizing channels

You can use the menus to automatically memorize the channels your TV can receive. Once channels are memorized, you can scan through them using the channel controls on the remote control and control panel.

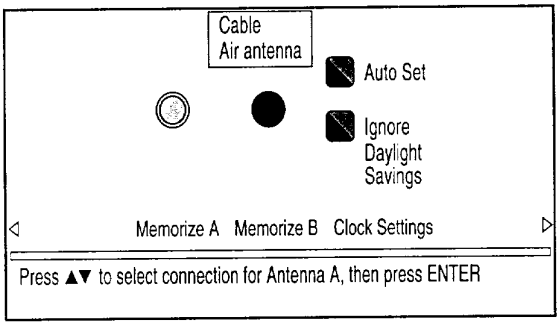


❶ Press the MENU button on the remote control. The main menu appears on the screen.

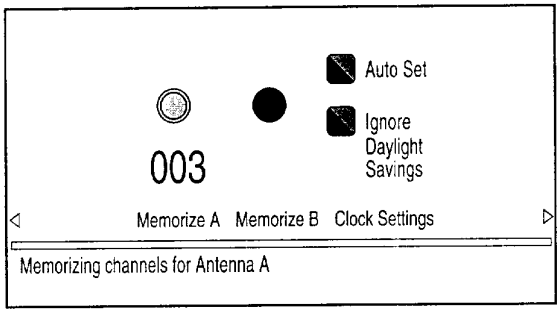
❷ Use the ADJUST left & right buttons to select "Setup." Press ENTER.



❸ You will see the "Setup" screen. Next, select the terminal (Ant-A or Ant-B) to which you attached an antenna or cable from your cable system. Use the ADJUST left & right buttons to select "Memorize A" or "Memorize B." Press ENTER.



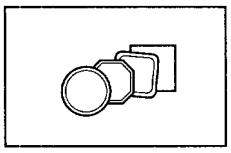
❹ Use the ADJUST up & down buttons to choose the type of antenna you connected: Cable or Air antenna. Press ENTER.



❺ The channel memorization starts. You can stop channel memorization at any time by pressing CANCEL.

When a channel is added to memory, it displays in green; a channel that is not added displays in red.

▷**Important:** Channel controls work only after channels are memorized. After memorizing, use the channel controls (CHANNEL) to advance sequentially to the next memorized channel. Use the number buttons to select individual channels.



Setting the clock (cont.)

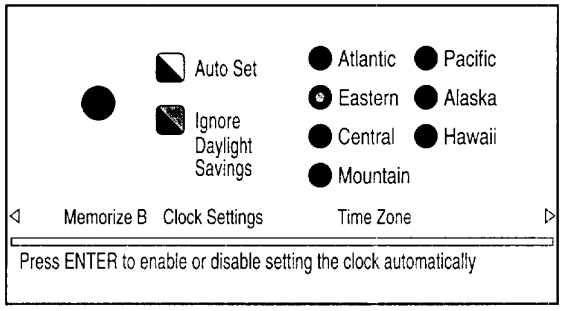
❸ Use the ADJUST up & down buttons to select the Time Zone you live in. The available time zones are: Atlantic, Eastern, Central, Mountain, Pacific, Alaska and Hawaii.

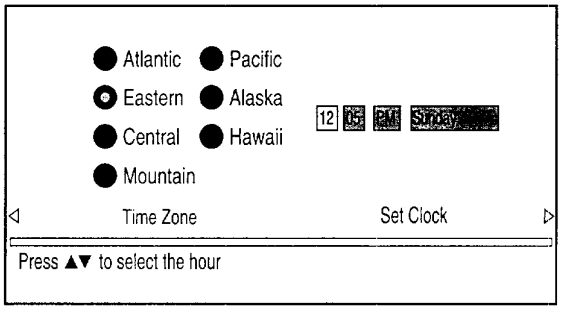
❹ The automatic clock set-up is completed. Press the MENU button to return to normal TV viewing.

▷**Important:** If you manually set the clock, the "Auto Set" feature is automatically disabled.

If you are receiving a VCR signal on channel 3 or channel 4, the automatic clock setting may not work correctly.

▷**Important:** If your TV loses power, you must reset your clock.





setting the clock yourself

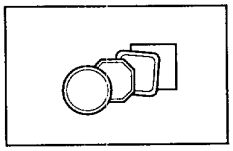
❶ Uncheck "Auto Set" using the ENTER button.

❷ Use the ADJUST right button to select the hour position of "Set Clock."

❸ Use the ADJUST up & down buttons to select the hour. Press the ADJUST right button.

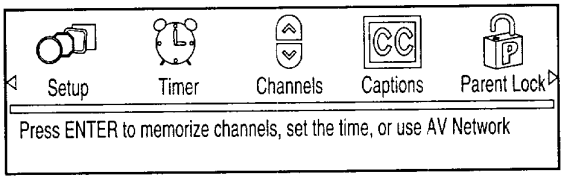
❹ Use the ADJUST buttons to select the minute, AM/PM, and day of week.

Press the MENU button to exit this menu.



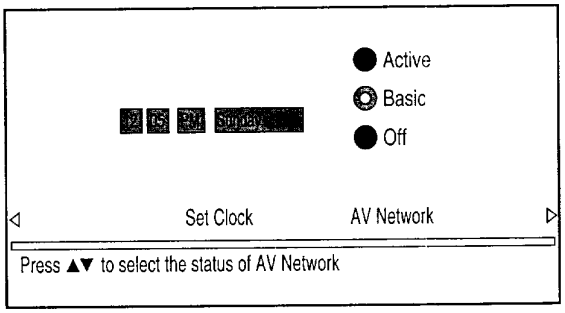
Setting the AV Network

The AV Network is a system that Mitsubishi developed to make it easier to operate many products with one remote control. When the AV Network is connected between two Mitsubishi products, you can point the remote control at one product and it "passes" the remote control command to the other. To set up the AV Network:



❶ Press the MENU button on the remote control. The main menu appears on the screen.

❷ Press ADJUST right until Setup is highlighted.



❸ Use the ADJUST left & right buttons to select "AV Network."

❹ Use the ADJUST up & down buttons to select "Active," "Basic," or "Off." Check the rear terminals of your VCR, then use the chart below to determine how you should set your TV.

❺ Press the MENU button to return to normal TV viewing.

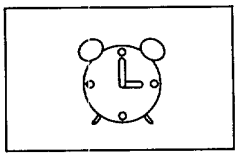
If your VCR has a rear terminal that reads:	...and you set your VCR to:	...then set your TV to:
A/V Network	–	Basic
Active A/V Network	Off	Basic
Active A/V Network	Active	Active
Does not have an A/V Network rear terminal	–	Off

If you are not sure how to set your VCR's AV Network setting, refer to your VCR's owner's guide.

▷**Important:** The AV Network can still be used to pass remote control signals even when the TV's "AV Network" setting is "Off."

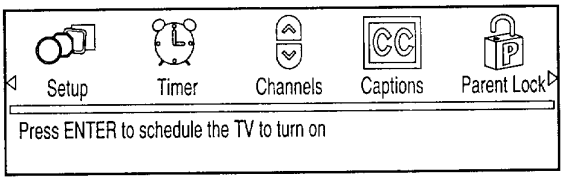
▷**Important:** If you do not use the AV Network system, set "AV Network" to "Off." If you don't, channel selection may not work correctly.

▷**Important:** If you select either the Active or Basic AV setting, make sure your Mitsubishi VCR with an AV network or Active AV network connection is connected to Input-1 and the AV network cable is in place.



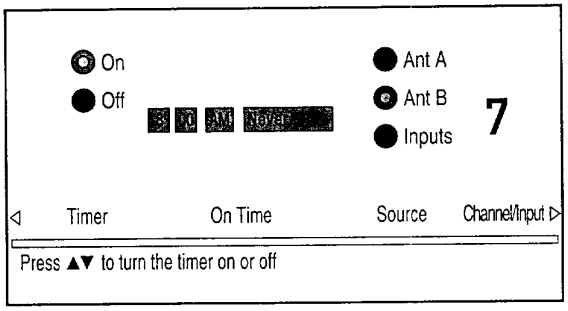
Setting the timer

This special feature allows you to automatically turn the TV on and tune to a selected channel, at a specific time, for a single day or range of days. For example, you can set the timer to turn the TV on every day from Monday through Friday at 8:00 pm.



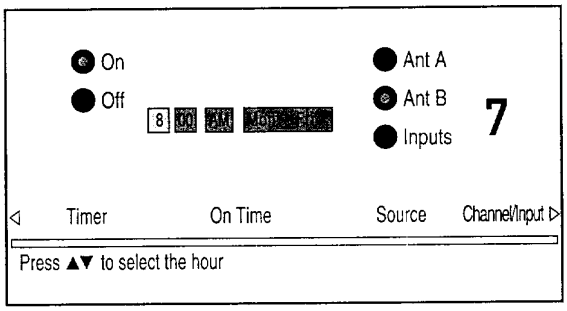
❶ Press the MENU button on the remote control. The main menu appears on the screen.

❷ Use the ADJUST left & right buttons to select "Timer." Press ENTER.



❸ To turn the timer on, use the ADJUST up & down buttons to select "On." Press the ADJUST right button.

❹ Use the ADJUST up & down buttons to select the hour. Press the ADJUST right button.



❺ Select the remaining timer settings:

- minute
- AM/PM
- day of week (Sunday~Saturday, Every day, Mon-Fri, Sun-Thu),
- source
- channel/input that the TV will use when it turns on

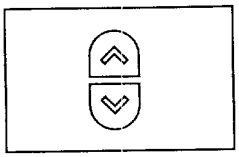
Use the ADJUST up & down buttons to select the setting and ADJUST left & right buttons to navigate the controls.

❻ Press the MENU button to return to the normal TV viewing.

After setting the timer, the power light indicator lights in red when the TV is turned off.

To clear the timer, select "Timer: Off" using the ADJUST buttons.

▷**Important:** When the timer turns the TV on, the message "Press a key for TV to stay on" displays. If you do not press a key, the TV automatically turns off. Press a function button (such as the information button) to keep the TV on and turn the message off.



Editing the channels

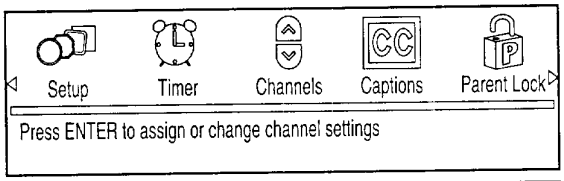
This special feature allows you to add or remove a channel from memory, add or remove a channel from the SuperQuickView™ list, lock or unlock a channel, and edit a channel name.

Memory - - - After all available channels are memorized with the "Setup" menu feature, channels with weaker signals or channels you don't want memorized can be deleted.

SQV (SuperQuickView™) - - - You can add a channel to the SuperQuickView list or remove it from the list. You can use the SQV button on the remote control to quickly scan through SuperQuickView channels.

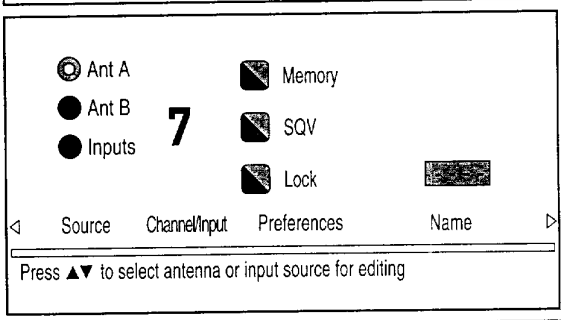
Lock - - - Allows you to select the channels that lock when you enable the parent lock. See "Using the parent lock" in this chapter for information on enabling the parent lock.

Name - - - You can name (label) up to 52 channels that your TV receives. After you enter a name, it appears on-screen under the channel number.

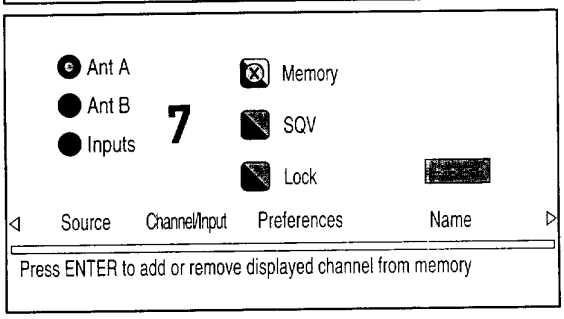


❶ Press the MENU button on the remote control. The main menu appears on the screen.

❷ Use the ADJUST left & right buttons to select "Channels." Press ENTER.

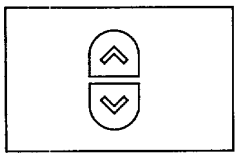


❸ Use the ADJUST up & down buttons to select the antenna or input source for editing. Press the ADJUST right button.



❹ Use the ADJUST up & down or CHANNEL buttons to select the channel or input. Press the ADJUST right button once for "Preferences" or twice for "Name."

❺ Use the descriptions on the following page, depending on your selection.



Editing the channels (cont.)

Preferences

Memory

- Use the ADJUST up & down buttons to select "Memory."
- Press the ENTER button to add (checked) or remove (unchecked) the displayed channel from memory.

SQV

- Use the ADJUST up & down buttons to select "SQV."
- Press the ENTER button to add (checked) channels to the SuperQuickView™ list or remove (unchecked) channels from the SuperQuickView list.

You can add channels directly to the SuperQuickView list using the remote control's SQV button.

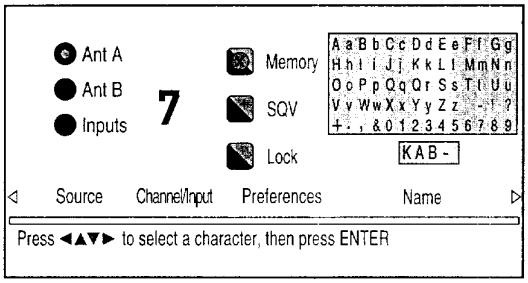
- Use the channel controls or number buttons to tune the TV to the channel you want to add to the list.
- Press and hold the SQV button for a second; the letters "SQV" appear, indicating that the channel has been added to SuperQuickView memory.

Lock

- Use the ADJUST up & down buttons to select "Lock."
- Press the ENTER button to lock (checked) or unlock (unchecked) the displayed channel.
- To enable channel locks, use the "Parent Lock" menu.

Name

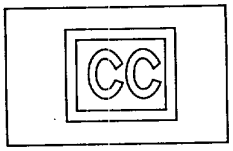
- Press the ENTER button. The character list appears.
- Use the ADJUST buttons and the ENTER button to select each letter in the new name. You can use letters (A – Z), symbols (blank - ! ? + . , &), or numbers (0 – 9).


Ant A
Ant B
Inputs
7
Memory
SQV
Lock
A a B b C c D d E e F f G g
H h I i J j K k L l M m N n
O o P p Q q R r S s T t U u
V v W w X x Y y Z z
+ . , & 0 1 2 3 4 5 6 7 8 9
KAB -
Source
Channel/Input
Preferences
Name
Press ◄▲▼► to select a character, then press ENTER

If you press the CANCEL button while setting the name, you move one position to the left. You can clear the entire name by pressing CANCEL when the left-most position is selected.

6. When you are finished, press the MENU button to return to normal TV viewing.

▷**Important:** The channel names you set display instead of the call letters supplied by Extended Data Services (XDS).



Using the closed caption decoder

Many broadcasters now supply closed captioning information along with their regular broadcasts. Your TV can decode this information and display it on the TV screen.

There are two types of captioning that broadcasters can send: **standard** and **text**.

Standard captioning is related to the program that is being shown. Standard captioning usually follows the dialogue of the characters on-screen and only displays when the broadcaster is sending the closed captioning signal.

Text captioning often contains information such as weather or news. Text captioning blocks out your view of the program you are watching.

Your TV can decode four different "standard captioning" signals and four different "text captioning" signals from each TV station. However, each station may be broadcasting only one or two captioning signals, or none at all.

When setting the decoder you can choose:

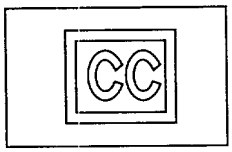
- to display one of four "standard captioning" signals (CC1, CC2, CC3, CC4), Most standard closed captioning broadcasts are available on CC1.
- to display one of four "text captioning" signals (Text 1, Text 2, Text 3, Text 4), Most standard text captioning broadcasts are available on Text 1.
- to display captions when muting (On if mute),
- or to turn the captions off (Off).

If you select "On if mute," the captioning signal you select appears whenever you use the MUTE button.

▷**Important:** If you set the decoder to a "standard" caption setting and tune to a broadcaster that is not sending a caption signal, no captions appear.

▷**Important:** If you set the decoder to a "text" setting and tune to a broadcaster that is not sending a text signal, a large black rectangle will appear on your screen. Press the HOME button to make the rectangle disappear.

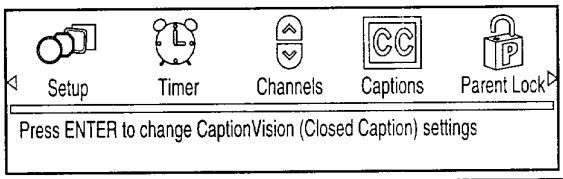
▷**Important:** The content of captions are determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.



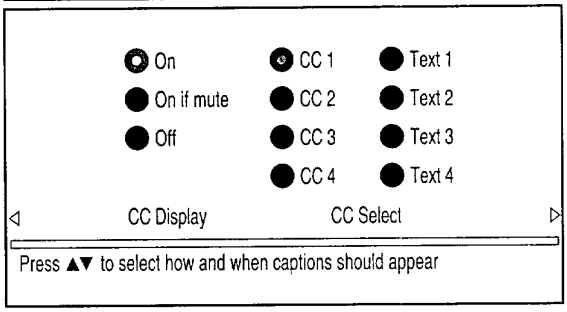
Using the closed caption decoder (cont.)

adjusting the closed caption decoder

You can access the closed caption decoder screen using the MENU button. When adjusting the closed caption decoder, you can use the buttons on the remote control.

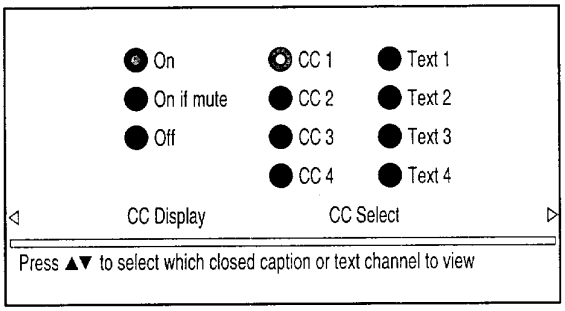


❶ Press the MENU button on the remote control. The main menu appears on the screen.



❷ Use the ADJUST left & right buttons to select "Captions." Press ENTER.

❸ Use the ADJUST up & down buttons to select "CC Display" mode: On, On if mute, or Off. Press the ADJUST right button.



❹ Use the ADJUST up & down buttons to select the caption setting you want (CC Select).

(See the previous page for an explanation of the caption settings.).

uses for closed captioning

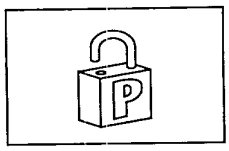
Closed captioning was initially designed so that those with hearing difficulties could more fully enjoy viewing television. However, closed captioning can be used in other ways, such as:

- helping children learn to read,
- learning a foreign language, and
- using the television without disturbing others.

▷**Important:** If you cannot display any captions on the screen, please keep in mind that not all broadcasters, video tapes, or laserdiscs supply closed caption signals.

Additionally, captions might not appear:

- if you play a video tape that is worn or deteriorated;
- if you play a laserdisc in still or search mode; or
- if you play a video tape in search, slow motion, or still picture modes.



Using the parent lock

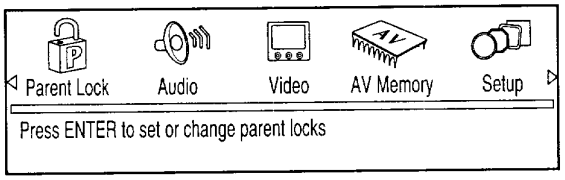
This special feature allows you to lock the entire TV during a certain time period or to lock individual channels. (You cannot lock the TV *and* lock individual channels at the same time.) If you enable the lock, the TV prompts for you to enter a 4-digit password when:

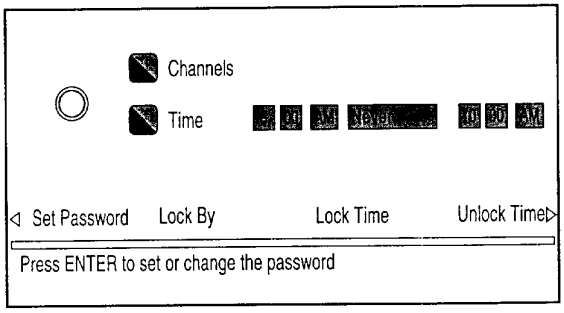
- the lock is enabled for individual channels and you try to access any of the locked channels OR the menu
- you turn the TV on and the lock is enabled for the current time period

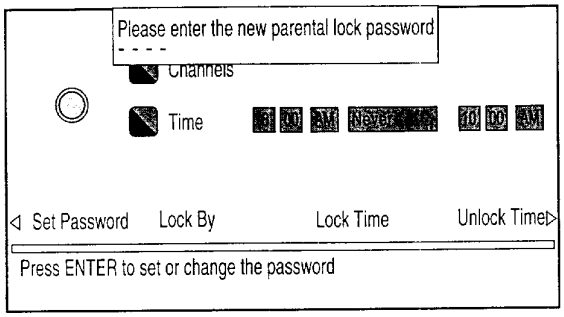
When you enter the password, the message disappears and the lock is turned off.

If you want to lock individual channels, you must first select the channels to lock, and then you must enable the parent lock for "Channels." Selecting the channels to lock is a one-time procedure. Whenever you enable the parent lock for "Channels," the channels that you previously locked require a password. (See "Editing the channels" in this chapter for information on locking and unlocking channels.)

▷**Important:** If you enable the parent lock, you cannot use the timer.







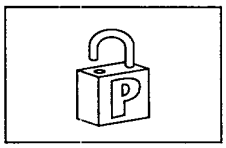
setting the password

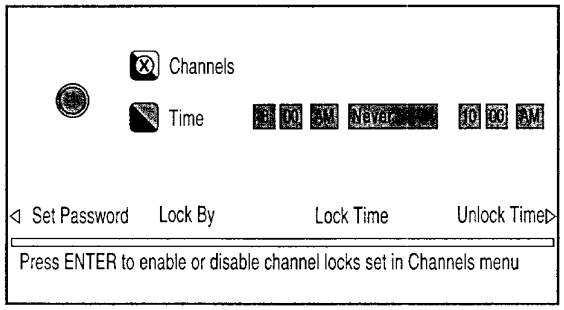
1. Press the MENU button on the remote control. The main menu appears on the screen.
2. Use the ADJUST left & right buttons to select "Parent Lock." Press ENTER.
3. The setting screen for the parent lock appears. Press the ENTER button.
4. Enter a four-digit password using the number buttons (0-9). Press the ADJUST right button.

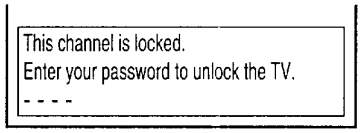
   You can cancel the code if you press CANCEL button.

   See "locking the TV" on the following page for information on enabling the parent lock.

Using the parent lock (cont.)



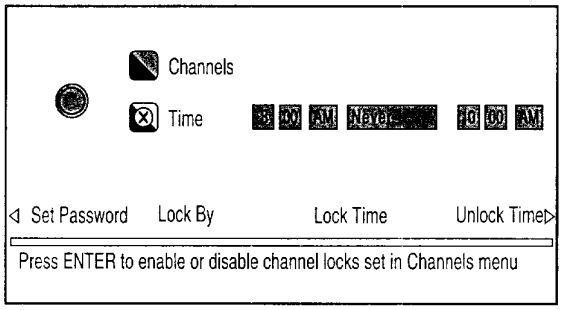


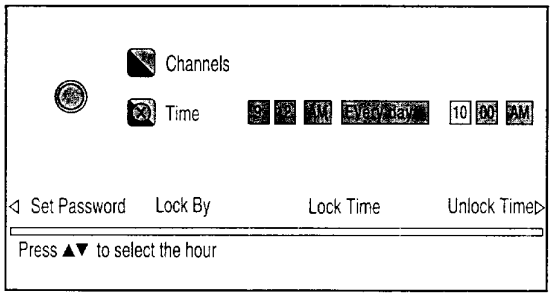


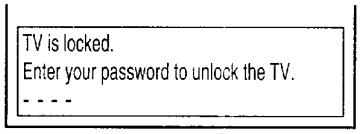
locking individual channels

1. Use the ADJUST up & down buttons to select "Channels". Press MENU. The screen returns to the main menu.
2. Press HOME to exit the menu.

When you try to view a locked channel, you are asked to enter your four-digit password. Enter the password to disable the lock.







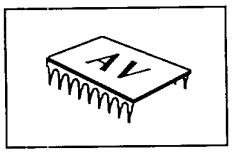
locking for a time period

1. Use the ADJUST up & down buttons to select "Time." Press the ADJUST right button.
2. The cursor moves to "Lock Time." Use the ADJUST buttons to set the time and days you want to lock the TV. Press the ADJUST right button.
3. Use the ADJUST buttons to set the time you want to unlock the TV (Unlock Time). Press MENU. The screen returns to the main menu.

   If you want the lock to be in effect all the time, set the "Lock Time" for the same time as the "Unlock Time."
4. Press HOME to exit the menus.

- When you turn on a locked TV, or if the lock's "time period" begins, you are asked to enter your four-digit password. Enter the password to disable the lock.

>**Important:** If you forget your four-digit password, see the appendix Procedure for Bypassing the Parental Lock.



Selecting the AV memory position

Your TV has four AV memories. AV memories are pre-set picture and sound (except for stereo/SAP) adjustments that are optimized for different types of programs and viewing conditions.

You can change these memories as often as you like. You can also change the individual audio/video settings (bass, tint, etc.) for each memory position.

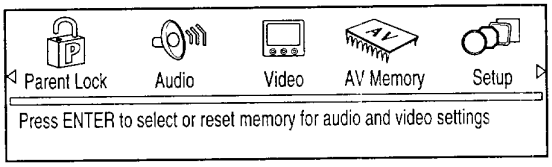
▷**Important:** See "Adjusting the sound" and "Adjusting the picture" in this chapter for information on adjusting individual audio/video settings for the currently selected AV memory position.

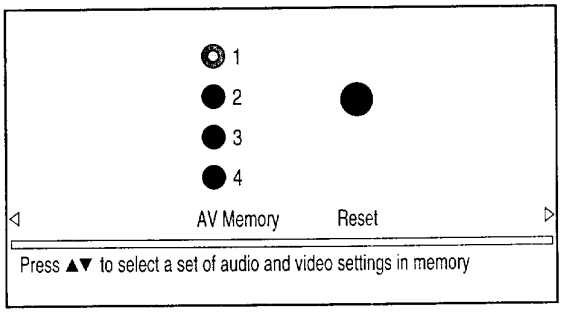
The AV memory positions are:

1 - Optimized for typical broadcast television
2 - Optimized for movies
3 - Optimized for a dimly lit room
4 - Optimized for a brightly lit room

You can select one of the four memories using the menus or the AV MEMORY button.

>**Important:** A/V memory positions and settings are specific to the currently selected input. For example, you can set Input 1 to use A/V memory position 1 for broadcast television and set Input 2 to use A/V memory position 2 for watching movies on your VCR. When you switch inputs, the A/V memory position that was last used for the input is automatically selected.





using the menus

❶ Press the MENU button on the remote control. The main menu appears on the screen.

❷ Use the ADJUST left & right buttons to select "AV Memory." Press ENTER.

❸ Use the ADJUST up & down buttons to select the desired AV memory.

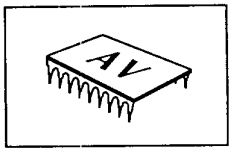
resetting the AV position

To reset the selected AV memory position to its normal audio/video settings, select "Reset" using the ADJUST left & right buttons. Press ENTER.

❹ Press the MENU button to return to the main menu.

using the AV memory button

When the menu is NOT displayed, press the AV MEMORY button on the remote control and select the desired memory position.



Customizing the AV memory position

You can adjust the individual video and audio settings for each of the four preset A/V memory positions to select desired picture and sound qualities. This section provides descriptions of each video and audio setting, and explains how to adjust them for the currently selected A/V memory position. (See "Selecting the A/V memory position," in this chapter for more information.)

▷**Important:** You can cancel any adjustments made to an A/V memory position and return it to the factory settings. (See "Selecting the A/V memory position," in this chapter for more information.)

Adjusting the sound

This section contains descriptions for each audio setting and explains how to adjust each setting for the A/V memory positions.

descriptions of audio functions

The "**Woofer**" function controls the woofer (very low frequency) volume (only for CS-35707 and CS-40707 models).

The "**Bass**" function controls the volume of low frequency sound.

The "**Treble**" function controls the volume of high frequency sound.

The "**Balance**" function adjusts the level of sound between the left and right speakers. Adjust the scale until the sound seems to come equally from both speakers.

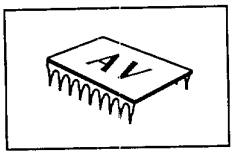
The "**Surround**" function creates simulated stereo and surround effects. You can set this function to "Off," "Simulate," or "Hall."

- Select "**Off**" if you do not want to use any surround effects.
- Select "**Hall**" if you are watching a stereo program; your TV creates a simulated surround effect, making the sound seem to extend around and behind you.
- Select "**Simulate**" if you are watching a non-stereo program; your TV creates a simulated stereo effect.

The "**Listen to**" function allows you to determine how your TV receives an audio signal from a channel and plays back the sound that you hear. You can set this function to "Stereo" and "S.A.P."

- For almost all situations, you should choose "**Stereo.**" With this setting, the TV plays stereo broadcasts in stereo and mono broadcasts in mono. If a channel is broadcasting in stereo, the word "Stereo" displays when you tune to that channel.
- Some TV stations broadcast a separate audio, or **S.A.P.**, signal. This signal is an additional soundtrack that you can't hear during normal TV viewing. The S.A.P. signal might be related to the program you are watching (e.g., a soundtrack in a foreign language), or it might be unrelated (e.g., a weather report). If a channel is broadcasting a S.A.P. signal, the letters "SAP" display on-screen when you tune to that channel. Choose "**Listen to: SAP**" to hear the S.A.P. signal.

▷**Important:** Unlike the other audio functions described in this section, the "Listen to" function setting is not saved with the selected A/V memory position. If you select S.A.P, the television returns to "Stereo" if you change the A/V memory position, channel, or input.



Customizing the AV memory position (cont.)

The "**Speakers**" function allows you to play the TV's sound through the internal speaker or the external speakers.

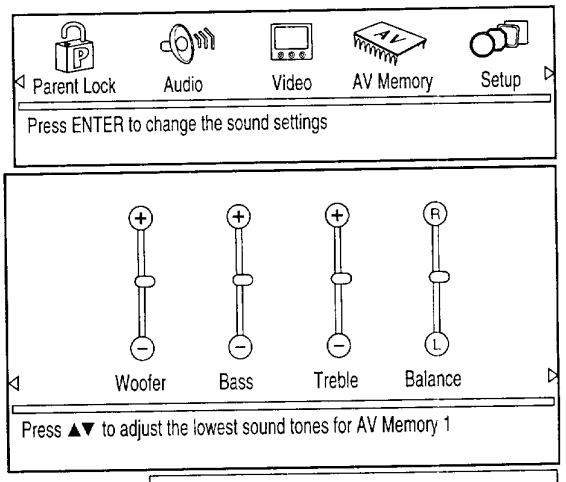
- Choose "**Internal**" if you want to play the TV's sound through the TV's built-in speakers.
- Choose "**External**" if you connect speakers to the speaker terminals on the rear of the TV, or if you want to play the sound of your TV through an audio system.

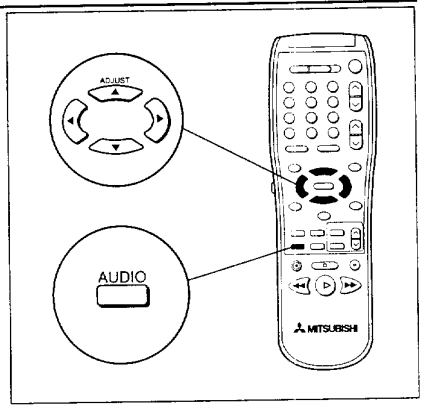
The "**ACCY Out (Accessory out)**" function determines how the TV sends a second audio signal to an audio system or home theater receiver using the accessory output terminals on the rear of the TV. Your choices are "PIP," "SAP," or "Main."

- If you choose **"PIP"** or **"SAP,"** the TV sends an audio signal for the PIP channel or the SAP (second audio program). For example, selecting SAP or PIP allows a person using headphones to listen privately to the PIP or SAP audio signal.
- If you choose **"Main,"** the TV sends out an audio signal at a fixed volume level. The level does not change when you adjust the TV's volume.

adjusting the audio functions

You can adjust the audio settings for the currently selected A/V memory position using the MENU or AUDIO buttons on the remote control.



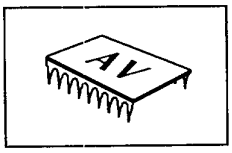


access with the MENU button

1. Press the MENU button on the remote control. The main menu appears on the screen.
2. Use the ADJUST left & right buttons to select "Audio." Press ENTER.
3. The audio functions appear. Select the function you want to adjust by pressing the ADJUST left & right buttons.
4. Use the ADJUST up & down buttons to adjust the function's setting.

access with the AUDIO button

1. Press the AUDIO button until the desired function displays.
2. While the function is still on the screen, use the ADJUST up & down buttons to adjust the function's setting.
3. The function disappears from the screen after a few seconds.



Customizing the AV memory position (cont.)

Adjusting the picture

This section contains descriptions for each video setting and explains how to adjust them for the A/V memory positions.

descriptions of video functions

The "**Tint**" function provides a scale that adjusts the proportion of red to green in the picture. This determines the delicate tones of color.

The "**Color**" function provides a scale that determines the intensity of the color.

The "**Contrast**" function provides a scale that controls the level of white-to-black in the picture. When the contrast is low, you are able to see the variety of shades in the darker images on the screen. When the contrast is high, the screen's dark images appear more uniformly black. This makes the colors on the screen seem more vibrant.

The "**Brightness**" function provides a scale that controls the overall brightness of the picture.

The "**Sharpness**" function provides a scale that adjusts the detail and clarity of the picture.

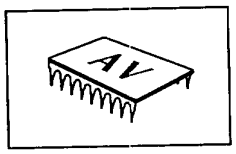
Use the "**Noise reduce**" function to reduce the grainy or snowy images that can occur with weak signals. This function can be turned on or off.

- Set this function to "**Off**" during normal TV viewing.
- Set this function to "**On**" if you are receiving a weak signal with a grainy or snowy picture.

The "**Color Temp.**" (**Color temperature**) function allows you to set how the TV displays white images. Your choices are "Low," "High," or "Middle."

- With the "**High**" setting, white images have a blue cast to them.
- With the "**Middle**" setting, white images are balanced between yellow and blue.
- With the "**Low, 6500K**" setting, white images have a yellow cast to them. Among these three color temperature settings, this is the closest to the 6500 degrees K standard.

Use the "**Color Bias**" function to help your TV reproduce colors, especially skin tones, as realistically as possible. You can set this function to "Accurate," "Average," or "Skin Tone."



Customizing the AV memory position (cont.)

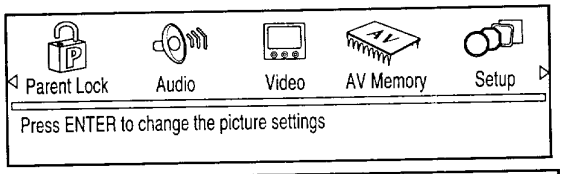
- The "**Accurate**" setting does not make adjustments to the picture. Use this setting when watching professionally produced video tapes and laserdiscs (such as rental movies).
- The "**Average**" setting adjusts skin tones based on the other colors on the screen.
- The "**Skin Tone**" setting adds warmth and red tones to the picture.

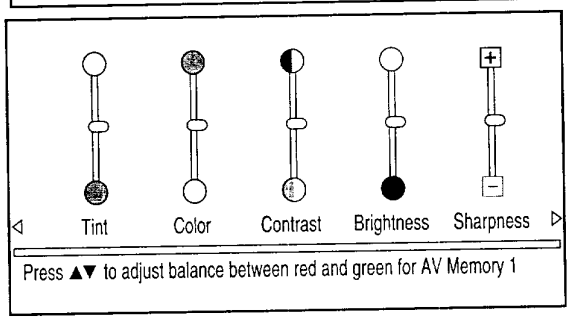
The "**Active Edge Def. (Definition)**" function enhances the object edge. You can turn this function on or off.

- Select "**On**" if you want to turn on the object edge enhancement.
- Select "**Off**" if you want to turn off the object edge enhancement.

adjusting the video functions

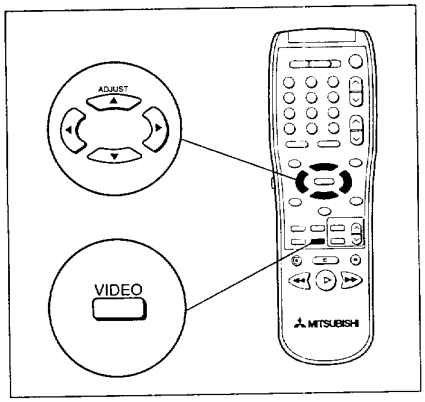
You can adjust the video settings for the currently selected A/V memory position using the MENU or VIDEO buttons on the remote control.





access with the MENU button

1. Press the MENU button on the remote control. The main menu appears on the screen.
2. Use the ADJUST left & right buttons to select "Video." Press ENTER.
3. The video functions appear. Select the function you want to adjust by pressing the ADJUST left & right buttons.
4. Use the ADJUST up & down buttons to adjust the function's setting.



access with the VIDEO button

1. Press the VIDEO button until the desired function displays.
2. While the function is still on the screen, use the ADJUST up & down buttons to adjust the function's setting.
3. The function disappears from the screen after a few seconds.

CHAPTER FOUR

Using the Special Features

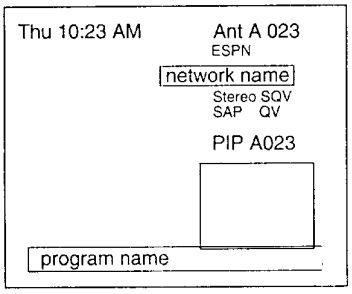
In addition to the basic and advanced features explained in the previous chapter, this TV offers the user several special features not generally available on other brand TVs. This chapter explains how to use these distinctive features. It contains the following topics:

- **Understanding the On-Screen Displays**
- **Using the Sleep Timer**
- **Using the Picture-in-Picture (PIP) Modes**

♦ Understanding the On-Screen Displays

Your TV provides an on-screen summary of the current settings for the TV or cable channels, as well as the information related to XDS (Extended Data Services). XDS allows broadcasters to supply you with the current time, channel information (such as call letters and the network name), and program information (such as the program name and program description). To view this information, press the information button (INFO) on the remote control (when the menu is NOT displayed).

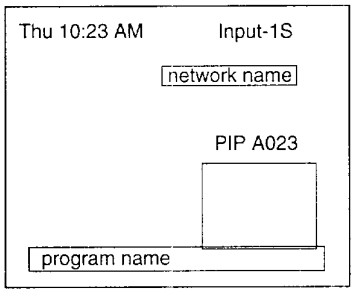
You will see a display like this, if your main source is an antenna:



This setting shows:

- the day of the week,
- the time,
- the antenna (A) and channel number (23),
- this channel's call letters or name,
- stereo and SAP are available,
- this channel is programmed into SuperQuickView™ and QuickView™ memory, and
- PIP input source.

You will see a display like this, if your main source is an input:



This setting shows:

- current day of the week,
- time,
- an S-video cable was connected,
- the input name (Input-1), and
- PIP input source.

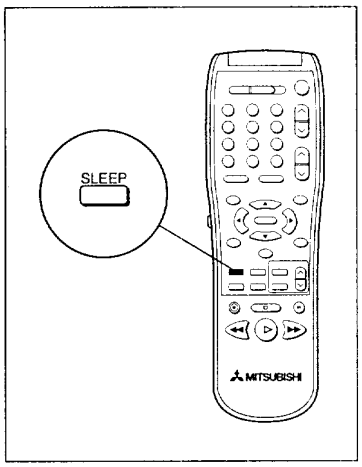
This also shows where the network name and program name appear if the broadcaster is supplying the information via XDS.

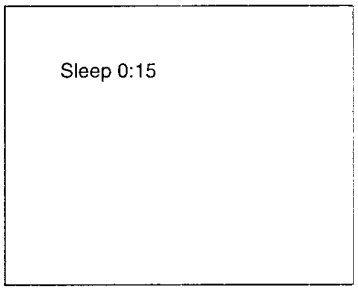
♦ Using the Sleep Timer

This special feature allows you to set the TV to turn off automatically. You can set the TV to turn off after a period of time ranging from 15 minutes to 3 hours, in 15-minute increments. In this section you will learn about:

- **Setting the sleep timer, and**
- **Changing or canceling the sleep timer.**

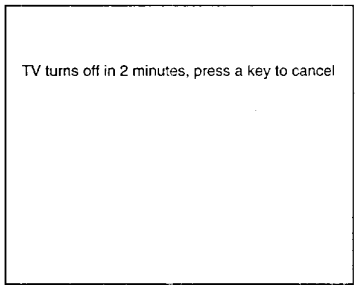
Setting the sleep timer



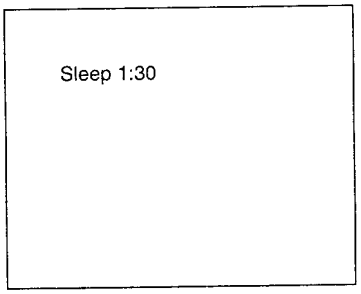


1. Press the SLEEP button on the remote control. The sleep timer display appears on the screen.
2. Select how long you want the TV to stay on by repeatedly pressing the SLEEP button. The time increases in 15 minute increments each time you press the button.
3. When you reach the time you want, stop pressing the button. The sleep timer display disappears after a few seconds.
4. To view the amount of time left in the sleep timer press the information button (INFO) once. The on-screen display shows the amount of time remaining.

▷**Important:** During the last 2 minutes before the TV turns off, the following display appears in yellow to remind you that the sleep timer is set.



Changing or canceling the sleep timer



1. Press the SLEEP button on the remote control. An on-screen display indicates the amount of time remaining until the TV turns off.

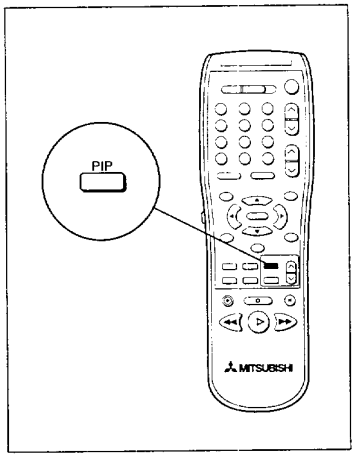
2. Repeatedly press the SLEEP button to change the remaining time or to cancel the sleep timer. The sleep timer is canceled when the remaining time is blank.

♦ Using the Picture-in-Picture (PIP) Modes

One of the special features of the TV is the picture-in-picture (PIP) mode. PIP allows you to view two different sources at the same time. In this section you'll learn about:

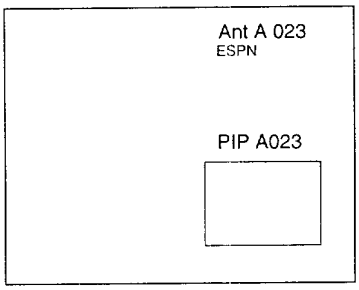
- **Activating the PIP image,**
- **Selecting the source of the PIP image,**
- **Changing channels while using the PIP modes,**
- **Exchanging the picture of the PIP image and the main image,**
- **Moving the PIP image, and**
- **Freezing the PIP image.**

Activating the PIP image

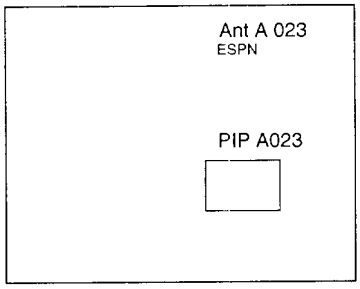


❶ Select the number of the TV channel you want to view with the channel control.

❷ Press the PIP button.



❸ A PIP image appears in the corner of the screen.



❹ Press PIP again within 10 seconds; the PIP image becomes smaller.

(If you wait longer than 10 seconds the PIP image disappears when you press the PIP button.)

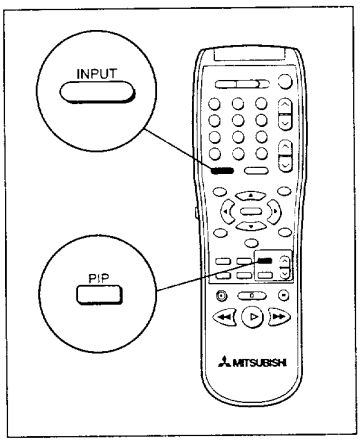
❺ Press the PIP button once again to cancel the PIP image.

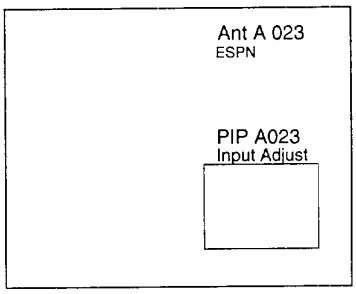
▷**Important:** When the main image is black and white, the PIP image also appears in black and white.

▷**Important:** If you move the PIP image and then turn it off, it remains in its new position when you turn PIP on again.

▷**Important:** Do not press the PIP button while you are watching a channel that is not receiving a broadcast.

Selecting source of the PIP image





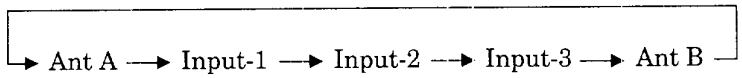
❶ Turn your VCR on.

❷ Turn the PIP image on.

❸ Press and hold the PIP button on the remote control until "Input Adjust" appears over the PIP image and blinks once.

❹ To select a source, continue pressing the INPUT button.

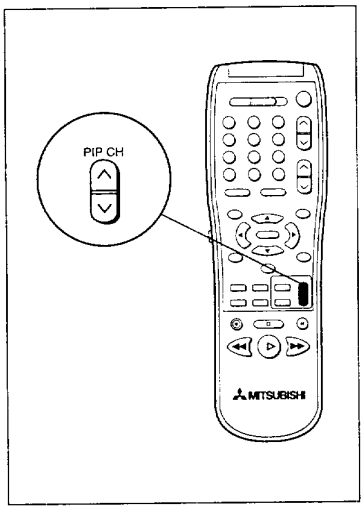
The source changes in the sequence shown below:



▷**Important:** To change the source of the main image when PIP is activated, press the input button (INPUT) while "Input Adjust" is not displayed.

Changing channels while using the PIP modes

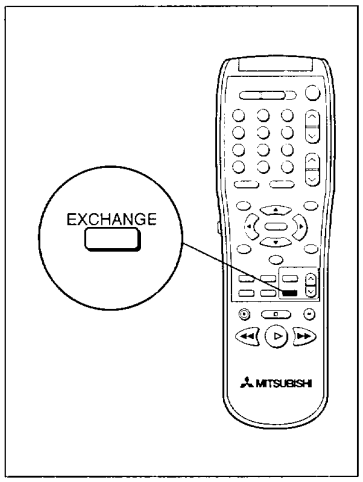
You can use the buttons on the remote control to change the channels of both the main image and the small PIP image.



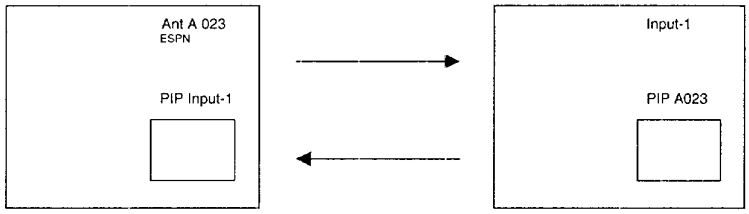
To do this:

1. Press the PIP channel button (PIP CH) on the remote control to change the channel of the PIP image.
2. Press the CHANNEL button on the remote control to change the channel of the main image.

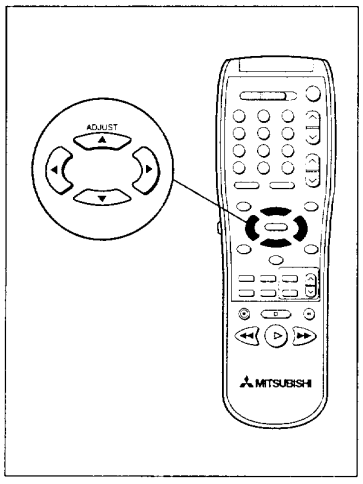
Exchanging the picture of the PIP image and the main image



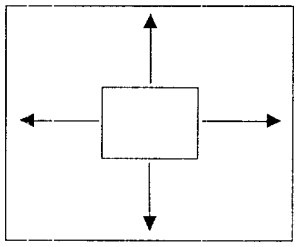
Press the EXCHANGE button to exchange the picture of the main (background) image and the PIP image.



Moving the PIP images

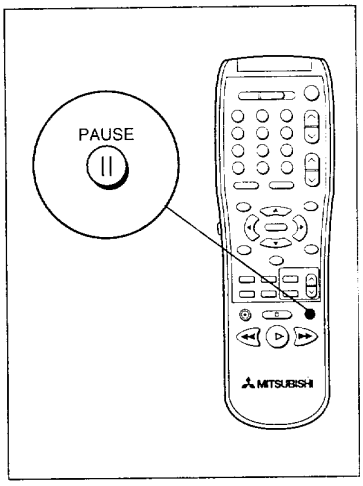


Press the ADJUST buttons to move the PIP image.



▷**Important:** If you move the PIP image and then turn it off, it remains in its new position when you turn PIP on again.

Freezing the PIP image



1. Press the PAUSE button to freeze the PIP image on the screen.
2. Press PAUSE again to return to a live picture.

▷**Important:** If you press the pause button while viewing a picture without a PIP image, a still PIP image displays.

♦ Using the Active AV Network Feature

This AV Network is a special feature that makes it easier to use your TV and your other AV components together. When you connect the AV Network, you can point the remote control at the TV, and it "passes" the remote control command to the other components.

Additionally, you gain even more benefits if you have a Mitsubishi VCR equipped for the Active AV Network. The Active AV Network allows you to perform many of the commonly used features of your system with the press of just one button.

This section explains the various features of the Active AV Network.

before you begin

- You must connect an A/V Network cable from the Active A/V Network terminal of your TV to the A/V Network IN terminal of your VCR. See "TV+Mitsubishi products that have A/V Network terminals," in Chapter 2.
- You must connect your VCR to Input 1 (INPUT-1) of your TV.
- You must set your TV's "AV Network" to "Active" or "Basic." See "Setting the AV Network," in Chapter 3.
- Set your VCR's remote control switch (if any) to "VCR-A."
- Turn on your VCR's video mute setting.

▷**Important:** The AV Network is only available for select Mitsubishi components.

what the Active AV Network does

The Active AV Network makes it easier and faster to use the VCR's Quick Program and Play commands.

▷**Important:** When using the Active AV Network, always point your remote control at your TV.

using the quick program button (QUICK PROGRAM)

▷**Important:** Before using this feature, set the select switch on the top of the remote control to "VCR-A."

When you press QUICK PROGRAM to begin programming your VCR:

- Active AV Network turns your VCR on and brings it to the "Program to Record" screen. (If the VCR's clock has not been set, the "Clock Settings" screen displays. See your VCR's Owner's Guide for information about setting the clock.)
- Active AV Network turns your TV on (if it is off), and switches the TV to INPUT-1.

You can program your VCR by pointing your remote control at the TV.

When you press QUICK PROGRAM to end VCR programming:

- If your TV is set to "Active," the Active AV Network turns your VCR off (unless a tape is currently playing or recording).
- Active AV Network returns your TV to the channel to which it was originally tuned, or turns the TV off (if it was off originally).

using the PLAY button (AUTO PLAY)

When you press PLAY on the remote:

- Active AV Network turns your VCR on and begins playing the tape (if any).
- Active AV Network turns your TV on and switches it to INPUT-1.

When you turn your TV off:

- If your TV has been set to "Active," your VCR turns off (unless it is playing or recording).

CHAPTER FIVE
Troubleshooting

You are now now familiar with the basic and advanced operations of your Mitsubishi TV. You may run into trouble from time to time as you use the TV. If you do, this chapter offers solutions to some of the common problems you may encounter. We suggest that you consult the chart on the following pages before contacting a Mitsubishi service representative.

Troubleshooting (cont.)

Problems	Possible Solutions	For More Information
• The remote control doesn't work.	• Check that the batteries are installed correctly.	• See "Getting ready to use the remote control" in Chapter 1 for an explanation of how to install batteries in the remote control.
	• Check that the select switch is set to "TV."	• See "Remote control buttons and functions" in Chapter 1, which explains where the select buttons are located.
	• Be sure that you are pointing the tip of the remote control toward the TV from a distance of no more than 20 feet.	• See "Getting ready to use the remote control" in Chapter 1, which contains pointers for using the remote control.
• The TV takes several seconds to respond to button commands.	• Use the ENTER button to avoid delays.	• See "Changing channels" in Chapter 3, which explains the function of the ENTER button.
• You can't access a channel.	• Be sure that the channel you want to view is programmed into memory.	• See "Memorizing channels" in Chapter 3, which explains how to program channels into the TV's memory.
	• Check that the TV is tuned to the correct input source (antenna) for that channel.	• See "Selecting the input source" in Chapter 3, which explains how to change the input source.
• You can't see a different channel in the reduced PIP image.	• Use the PIP and INPUT button to change the source of the PIP image.	• See "Using the Picture-in-Picture (PIP) Modes" in Chapter 4.
• The television appears to be locked and you cannot access any of the TV's functions.	• Use the TIMER RESET button to reset the TV.	• See "Overview of the control panel" in Chapter 1.

Troubleshooting (cont.)

Problems	Possible Solutions	For More Information
• On-screen displays appear each time you adjust a function.	• This is part of the normal operation of the TV.	• See "Understanding the On-Screen Displays" in Chapter 4 for a full explanation of the on-screen displays.
• There's no sound even when the volume is turned up.	• Check that the MUTE button isn't on. • The TV's "Listen to" setting may be set to "separate audio program" (S.A.P.). • Check that "Speakers" function is set to "Internal."	• See "Remote control buttons and functions" in Chapter 1, which explains the location and function of the MUTE button. • See "Adjusting the sound" in Chapter 3, which explains how to adjust the "Listen to" setting.
• You forget the code you used to set the parental lock.	• Use the alternate procedure that doesn't require the use of the code.	• See the Appendix, "Procedure for Bypassing the Parental Lock."
• You can't program the TV to turn on automatically.	• The TV may be locked.	• See "Using the parent lock" in Chapter 3.
• The sound doesn't match the image on screen.	• The TV's "Listen to:" setting may be set to "separate audio program" (S.A.P.).	• See "Adjusting the sound" in Chapter 3, which explains how to adjust the "Listen to" setting.
• There is a large black rectangle on the screen.	• The TV has been set to "text" mode, but there is no text information being broadcast.	• Press the HOME button to make the rectangle disappear. See "Using the closed caption decoder" in Chapter 3.
• You cannot see a picture when you play a tape in the VCR.	• If you connect your VCR with A/V cables, use the INPUT button to select the input source that the VCR is connected to. • If your VCR is connected to the TV antenna input, make sure the TV is tuned to the same channel as the VCR.	• See "Selecting the input source" for an explanation about changing the input.

Caution and care

▶Warning: Don't leave stationary images on-screen for more than 10 minutes. These images can scar the TV, causing permanent damage to the picture tube. Some examples of stationary images are:

- stock-market reports,
- station logos (especially bright ones),
- video game displays,
- shopping channel displays,
- the television's own on-screen displays.

▷Important: If you plan to place speakers next to the TV, make sure they are magnetically shielded. Ordinary speakers cause distortion in the picture due to their strong magnets. This distortion, however, does not harm the picture tubes.

For maximum enjoyment and safe operation of your Mitsubishi Color TV, please read the "IMPORTANT SAFEGUARDS" section at the beginning of this manual carefully and apply them properly.

Cleaning

Normally, light dusting with a non-scratching duster keeps your TV clean.

If you want to wipe down your TV, turn it off and unplug it. Then, wipe it gently with a soft cloth that is slightly moistened with water. Add a few drops of mild liquid detergent to the water for oily dirt.

DO NOT allow liquid to enter the TV through the ventilation slots.

DO NOT use strong or abrasive cleaners.

DO NOT use spray liquids or cleaners directly on the TV's surface.

DO NOT scrub or rub the TV harshly. Wipe gently.

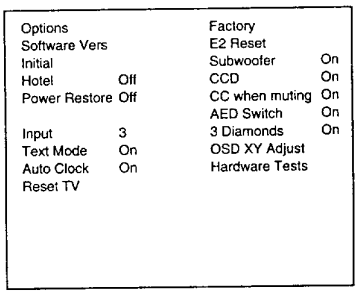
Calling for service

If you are unable to correct a problem with your TV, consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

Do not adjust any controls not described in this owner's guide.

Do not remove the protective back cover of this unit.

If you see the following display on your screen, you should not change any settings. This is a special display used by the factory.



For model CS-35607, "Subwoofer" indicates "Off."

If this display appears, make sure that all of the on/off settings are the same as the illustration above and then turn the TV off. If any of the settings are different from the illustration above, turn the TV off and consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

For further assistance, please call Mitsubishi Consumer Relations: 800-332-2119

APPENDIX

Procedure for Bypassing the Parental Lock

Cut along dotted line and file after reading.

After you set the lock, you will need the secret code in order to cancel the lock.

If you forget the code, you can view the locked TV without entering the code. To do this, simply press the buttons on your remote labeled "QV" and "9" at the same time whenever your secret code is requested.

▷**Important:** You must use the remote control included with this TV. You cannot use a remote control from another Mitsubishi component, and you cannot use any "Universal" remotes from other manufacturers.

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MEMO

MITSUBISHI COLOR TELEVISION OR COLOR MONITOR
LIMITED WARRANTY

MITSUBISHI CONSUMER ELECTRONICS AMERICA, INC. ("MCEA") warrants to the original purchaser of this television or monitor if purchased from an authorized MITSUBISHI Audio/Video Dealer that, should it prove defective by reason of improper workmanship and/or material:

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